The Mining Journal RAILWAY AND C

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 369. -- Vol. XII.7

LONDON: SATURDAY, SEPTEMBER 17, 1842.

PRICE 6D.

DTANNARIES OF CORNWALL.

IN THE VICE WARDEN'S COURT.

"FOX AND OTHERS 9. LEAH."

WHEREAS the Vice-Warden did, on the 13th day of August 2. Leah."

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WHEREAS the Vice-Warden did, on the 13th day of August 2. Leah."

NACHINERY and MAYERIALS upon shot belonging to the WHEAL HARWONY, CARDREW, AND MONTAGUE CONSOLIDATED MINES, in the parish of Redrub, within the sale Sismanaries, seeler the diverceton of the Registrar of the Court, and that the proceeds of the sale should be applied by the sale registrar in the manney diverded by the onse order of ingreen.—Notice is hereby given, that parsuant to the waid order or decree, a PUBLIC AUCTION will be holden at the Wheal Harmony, Cardwaw, and Montague Consolidated Mines aforesald, on Treaday, the 20th of Suptember instant and following days, at Eleven o'clock in the foresoon of each day, for selling, citize for geline or in losis, the underneousle, on Treaday, the 20th of Suptember instant and following days, at Eleven o'clock in the foresoon of each day, for selling, citize for geline to geline, in the day of Suptember instant and following days, at Eleven o'clock in the foresday, the 20th of Suptember instant and following days, at Eleven o'clock in the foresday, the 20th of Suptember instant and following days, at Eleven o'clock in the foresday, the 20th of Suptember instant and following district or selling, citize the following the control of Suptember 1. Suptember 1.

STANNABLES OF CORNWALL.
IN THE VICE WARDEN'S COURT.
DURSUANT to a Decree of the Vice-Warden's Court, made A cause of "For and others even Load," the creditors is respect of the WHEAL HARMONY, CARDREW, and MONTAGUE CONSOLIDATED MINES, a the parish of Redruth, within the said Stansarics, are, on, or hefore, the gether and court, at his office, in Trare, or is densit thereof, they will be parqued the benefit for the Registrar othe aid Court, at his office, in Trare, or is densit thereof, they will be parqued by acted the benefit of the said Decree.—Dated Sect 1.

JOSEPH ROBERTS, Plaintiff, Sulfector, John

O BE SOLD, pursuant to decrees of the High Court of Chan-TO BE SOLD, pursuant to decrees of the High Court of Chanevery, made in certain causes, entitled respectively "Lord Alvanley e. Lord
Rienszief," and "Lord Alvanley e. Edvards," with the approbations of William
Wingfelds, Eng., one of the Masters of the said Court, in eighteen tots, the MANOR
of BRDBRUX-CUM-GOITE, and a MOIETY of the MANOR of ROMILEY, and
the Reversion in Fee, expectant on the determination of certain lives, of various
PARMS and LANDR, in Broothery and Romiley overseables, together with all MINER
(Except mines of common stone) under lands formerly of John Arden, Eng., and
officerwards of the pisinitiff in the above suits; and also certain FRREHOLD FASHS,
parity in pessension, and parity subject to a life or lives, situate in Alvanley and
Riespeword; and a BTONK QUARKY in Kelnall, all in the county of Center, and
farmerly the property of the said plaintiff. The first nine lots, which comprise the
Dines, will be ROLD, at the Warren Bulkeley Arms Ins., in Stockport, in the county
of Chesries, on Monday, the 5th day of September, 1862; and the recomming and
ries, which comprise the Farms in Alvanley and Riegawood, and the Stock
of Chesries, to Mischall, the 5th day of September, 1862; and the recomming and
ries, which comprise the Farms in Alvanley and Riegawood, and the Stone
of September, in the South of September, 1862; and the recomming and
ries, which comprise the Farms in Alvanley and Riegawood, and the Stone
ries, and the Section Fave Ins. in Frontishem, in the case of county of Chesries, unTassolay, the 27th day of September, 1862, at Three orlock precisely in the after
mose of sain day.

Privated particulars may be had [graths] at the said Master's chambers, in Southcomprise, buildings, Chasactery-lane; of Mr. Done, solicitor, 169, Quildford-street;
Mr. Pard, onlicitors, 8, Laccode Alvanley, 1862, at Cherchy and Section and Scott, 5;

colors, 7, Permiral's into 186. Parker, onlicitor, 16, 8. Pan's Charebyaret M.
Henry Valladon, solicitors, 8, Laccode Alvanley, 1862, 1863, 1864, 1864,

COLLIERY AND MINERALS.—One of the finest and most productive MINERAL PROPERTIES is now officed without for ARROLUTE. SALE, or TO BE LET, to be worked at a revalv. The coal in of the work five quality, and ready for working, a vein of great thickness having been coal, and from some courses also found in obmoduce. Success conglects, grav, and michinery some in the most efficient state on the previous, on that the works may be commonced without clay. The prompetty is situated close to the lines of the Linesity Railway, with which the colliery is connected by a short branch, and every facility caled for the transport to Linesity and the singument of the produces in the funding nick, or basis, of that cutenaire underdaking. On the whole, it may be submitted this this property is the meet unique and advantageous ever offered for sale to letting the remains for which, with he explained, and further particulars offereds, on again the to Mr. John Rigg, in, Old Bryan-street, London, on and after Wednesday,

NTHRACITE COALs.—TO BE LET, and entered upon immediately, CERTAIN VEINS or SEAMS of SDALs, under the faces of TYUCHA, advantageously situated near the village of Likaciejie, in the county of Carmarthea. The reads adjusting affect every facility for conveyance of the old parts of the county, and the Liancity Railway passes gibin in the previous. We have particulars apply (by letter, pre-paid) to "A. H.," Post-diffice, Elan-diffic.

CERTAIN AND PROFITABLE INVESTMENT.-TO BE

VALUABLE MINING INVESTMENT.—TO BE SET, or DIRPOSED OF, the RIGHT to OME-PRURTH PART of the TIN in and throughout the contact of TRETOIL, in the partie of LaNVET, in the country of Cornwall, comprising the RICH TIN MINE of TRETRIII.—To tread for the contact of the Cornwall, comprising the RICH TIN MINE of TRETRIII.—To tread for the contact of the Cornwall, comprising the RICH TIN MINE of TRETRIII.—To tread for the contact of the Cornwall, comprising the RICH TIN MINE of TRETRIII.—To tread for the contact of the Cornwall, comprising the RICH TIN MINE of TRETRIII.—To tread for the contact of the Cornwall contact of the Cornwa

DE DUNSTANVILLE COPPEN MINING COMPANY.

DANESCOMBE MINING COMPANY,—The directors of the above company hereby give notice, that appetial. General, Meeting of the shareholders will be held at the office of the company, on Baturday, the 24th day of September instant, all two o'closed precisely, to take into considerant a shape precised circumstances of the mine, and to delegation on the common to be 24, Birchin-lane, September 1.

REAT WHEAL CHARLOTTE MINING ASSOCIATION.

-Notice is hereby gives, that a HALF-WRAELV and RFECIAL GENERAL MEETING of the shareholders will be held off the General and Voltage Tavers, Cornbid, on Friday, the 22d day of September solutant, at One victor preciser, to the purpose of confirming the revolutions possess at the Half-yearly Meeting, the one 22th of March last, to abandon the miner, and upon the general affair the association.—16, Lascence Fountage hill, Sept. 2.

R IO DE ANORI GOLD-STREAM-WORKS COMPANY. Notice in hereby given, that a public GENKRAI, MERTING of the shat bolders in this company will be beld, on Monday, the sist of October next, at a George and Veilure Tavere, St. Michael's-aliey, thrubill, at One o'clock precise As no pecuniary claim whatever now remains against the company, and certa shareholders feeling disposed still to proceed the modertaking, it is desirable, the above meeting, to ancertain the number of shares that may be purchases, for consideration, as well as those observabilities who may be induced to construct the modern of the strength of the property of the purpose.

By order,

Church lane, City, Aug. 21.

TRELEIGH CONSOLIDATED MINING COMPANY

MAMAR SILVER-LEAD MINING COMPANY. Notice is

TAMAR SILVER-LEAD MINING COMPANY.

A NOREW SMITH'S PATENT WIRE ROPE.-The

R USSIAN STEEL-HON-CCND.—The undersigned fixed been appointed to La Addition for the Megans, or Breatest in England, t

been appointed BOLE AGENTS for the Measure or Street in Englishment appointed BOLE AGENTS for the Measure or Street in Englishment and form can easily be obtained, through them, at 10, 41GH STREET, POPLL and 20, AUSTIN FALLAS, LONDON; at LIVERPOOL they have appointed Measure. Carrie and Toto; and at BRISTOL, Messure F. Mans and from, their agents.

The undersigned particularly requested all suspects of the UCN D to make their hason through them, or through their signate, which will differentially part a frame which in adventory practitions by various reproductions on entiting a loss inform from their land, account of the UCN D, by which mean thanks a green ground; lammand unas and finite in the CCN D. To the manufacture of the UCN D is made than a constraint made of the CCN D, by which mean thanks and the CCN D.

COMBUSTION of COAL, CHESICALLY & PRACTICALLY Ey CH ARLES WYR WILLIAMS, Eng.
London Biophio, Marshall, A.Co., and J. Wesler, Birmingham Wright

AR. SAMUEL HALL'S PATENT SMOKE-CONSUMING APPARATUR. The following PAPERS may be had GRATUITOUSLY, on application, by letter, to Mours. H. and W. Gend, 65, Menogate advect, or fire Hall, 18, King's Arther yard, London .—" Reductions of Mr. Poshik Reservicy's locarreyed Report to the Directions of the Midward Conductor Midward, "conjecting the observe apparatus.—" Research on the Judic Poshik Direction of defendence in may be collect.

ARGUS LIFE ASSURANCE COMPANY.

DR. THROGHORYON ATREET, BANK.
Emproved by special fact of Perilmono.
THOMAN FARNCOMB, Emp. Absertions. Chairman.
Wilham Bughery, Bug.
Henry Barrett, Em.
Henry Considered Constitution (Boyley, Em.
Henry Option (Boyley, Em.
Henry Opt

ALMOUTH HARBOUR.—TO ENGINEERS, CONTRACT
ORS, and others.—The Falmounth Harboner Committee are describing at ELECTRING TENDERS for DEEPENING PART OF THE INNER HARBOUR O
FALMOUTH, and for removing therefrom chlore 30,006, 40,000, 60 9, 600 tone, a
may becan fire be decided upon —Persons tendering mont deliver separate satisfands
for the neveral cannottier, and date comparably the price per yard or tone for the
they will raise and discharge the soil, and for which they will remove and depenit. The work to be accomplished will require sofficient power to require the so
from a depth of water early restreet than Cuenty, for one less time in the origin of
continuous actions to be made to the Falmouth Harboner Committee, of to W. J. Gest
Eng., secretary thereto, at whom office plans just specifications of the way's require
to be done may be seen, and every intromation obtained, nod where tensions
to received until the 15th day of October next. Those is no rook within the
proposed to be encavated. The material to be decedged to well adapted
demands, for measuring proposes. Specimens of the oil already raised to
be only parties if desired.— Dated Rept. 13.

TENDERS FOR LOANS ON MODETCASE.—The directores of this companinic presented, under provers of their Acts of Parliamons, to BECEFFE TENDERS is
the LOAN of MONEY, in some of not less than 2000, and for towns of three, for
neven, or ten years, and in that AT MODETCALES of the said conferencing, and of
the refers, tolls, or mension arising therefrom, as securities for such leasts, bearing
interest at the rate of 2 per circle, are samme. INTEREST WASANTA, for the
whole form for which the items shall be made, will be derivered to the leasters also
with the sacretages, not due made participating the company's notice through the late yearly, at the company's harbinary leasts
Landon, or fielders, as now be preferred. The tensors are to express the some on
the term of years for which the same nor proposed to be load, and to be addition
to the secondary, of the company's office, floriest.

By order of the board of directors.

Becken, August 26.

HEFFIELD, ASHTON-UNDER-LYNE, & MANCHESTE SHALWAY.—TRUDERS for LGANE.—The directors are prepared to GRAN MORTGAGES, conder the provises of their act of Partiances, for LGANE of MONT is using of not lose than a year section and for particular of three, dive, or seven years, the option of the leader. Interest at the ratio of a per cest, per encourage with he pahalf yearly, for which interest warrends will be given for the period agreed on, pashes at the company's benchester, or the field.—Parker, for which interest warrends will be given for the period agreed on, pashes at the company's benchester, or the field.—Parker, for which is the office of T. J. Parker, Eng., Bleeffeld, J. Scenere, Ingeliaw and Sinveys cheeser, or Meaning Johnson, finn, and Weatheralf, Tomple, London.

Manchester, as Meaning, Johnson, finn, and Weatheralf, Tomple, London.

SHEFFIELD, ASHTON UNDER LYNE, & MANCHESTER

SHEPPIELD, ASHTON UNDER LYNE, & MANCIE BAILWAY - CONTRACT FOR WORKS, of the deposition was not contract to the colored was not colored was not contract to the colored was not colored was not

SHEFFIELD, ASHTON-UNDER-LYNE, & MANCHENTER SHALLWAY - PORFEITED SHARES - By a posterious pleased of a figured state of the first day of Jacquery SHEPPIRIAD, ASSITEDN-UNDER-LYNE, & MANUEL RAILERAD, ASSITED, BRAILERAD, ASSITED BRAILERAD, Committee of the contract of the co

TO ARCHITECTS.—REYSSEL ASPHALTE COMPANY CLASINGS PATENT.—RESCORDED Mayon, Sun for processing the Mining State for processing t

SPECIFICATIONS OF RECENT PATENTS.

IMPROVEMENTS IN THE MANUPACTURE OF ARTIFICIAL FUEL

IMPROVEMENTS in the MANUFACTURE or ARTIFICIAL FUEL.
Aschew Korle, manufacture of artificial fool, August 26.—The improvements which are the manufacture of artificial fool, August 26.—The improvements which are the embject of this putcot consist firmity, in mixing with inferior and such proportionatic quantities of order (mide from male), reals, or caphethalise, with pides (mide from gas-tie), or other bituminous outstance, as will agains or gountestance, as will agains or gountestance, the recommendation of each inferior coul with that of the best coult known or found in England and Wales. The proportionate quantities of superior combustifie matters to be added to the inferior coult, in order to bring them up to the diame standard of coperation power on the best English or Weight cool, much, of course, depend upon the inferiority of the coult to be improved; and as the Reitiah Givernment standard for contracts for artificial feel is, that 1 h. of fool shall evaporate a tibe. of water, the present patents takes that as his classical,

to be added to the inferior couls, in order to bring them up to the discord, most, of course, and of expectative grower as the best English of Weish coul, most, of course, depend upon the inferiority of the soul to be Improved; and as the Editah Government ofconderd for constructs for artificial fied is, that I is, of fruit shall Government ofconderd for constructs for artificial fied is, that I is, of four shall experted is like, of under, the present patentes takes that as he diandard, and the following experiments are related, as showing the meaner and proportions in which the addition of commensatible matters must be made to inferire cool. "I have found (any Mr. Kartz) that the exaporative prower of music is an addition of commensative the matter must be made to inferire cool." If have found (any Mr. Kartz) that the exaporative prower of music is all in a course, it is, of bood Welsh cools, 7 lbs., 1 lbs. of the first, 1 lbs., of the lbs. Newcastic couls are similar in effect to Liverpool couls, a that it will be readily perceived, that where the best Weish coul water, and that the proportions must be suited and vivided most four or more parts, and that the proportions must be suited and vivide down of correla mentality are the couls when in a natural state."

The potentive claims, seconday, carties improvements " in the application of down of cortain mentalizery or apparature, for the purpose of preparing or maining the component parts of each artificial field, and forming or monition."

The natural coal is first to be ground small between an ordinary pair of homiteening to the proportions, or in a grinding-mill, and is afterwards to be submitted to a depth giving apparature is to be constructed with three chambers on compartments, or in a grinding-mill, and is afterwards to be submitted to a depth giving apparature is to be provided with a mustil apparature, and executed these divides down to a fine apparature, and executed the molecules of the submitted of the paperature is the provided with a damper, to placed several poles of areas or agitators, any about six pairs, about also inches white, and reaching to within about an inch of the inside of the milit at the lag, and about at a becken at the bottoms, each alternate pair being not are fixed at right angles with the adjusting pair, and each arm placed at an angle of about 20 degrees from the place of the bestime, as that, as the shaft reverse, these areas or agitators will not as one continuous acrew, and key faced in the second of the shaft and the contemporalism in the milit towards the bottom, at analyzed age of the beart, and timeling the heatheast from trains dand at the house end of the shaft, and timeling the heatheast from trains dand at the horizon and of the chaft, and timeling the heatheast from trains dand at the horizon of the milit. This governor or source, out of an agretime or most hepton formed at the horizon of the milit. This aperture or transfer or most hepton formed at the horizon of the milit. This aperture or transfer or most hepton formed from the milit. Makess of this composed are naw to be taken from the update composition as it is being forced from the milit. Makess of this composed are naw to be taken from the update of the horizon of the page milit, and, whilst in a heated state, to be thrown or east into equace boxes or france, the depth of an ordinary heigh, when the plactic material will flatton as it could, and spread itself evenly notified in the milit of the page milit end to be taken from the composition in the constant of military in the result of the could be a seen of facel. When the constant of military heigh, we distinct placed thereon, a given induced he had constant of military heigh, and the cut-tong and so past through the entire depth of the cake of facel. When the counted by the sides of the frame; there is not past through the entire depth of the cake of facel. When the frame length wite, and will thus call up the free is an length will, and to exist a place of rectary entirest placed to act to past through the

REGULATING THE FLOW OF GASEOUS FLUIDS.

REGULATING THE FLOW OF GASEOUS FLUIDS.

Incu Nawhoa, civil cogiscor, 60, Chancory-lane, Middloone, for certain comeans in regulating the flow of six and generals flaths. August 12, ... impossesses to social in a "peruffic construction of agreeable, in, meet the sightest tourness of greeable construction of agreeable, in the said of the six of greeable and regulated and regulated of manage, until the six of the six of give to restricted and regulated of the analysis, said the six of research six exceed. The working parts agreement one constitution metal resings, which is supposed to the control of six of controls may be considered to the control of the contro segments. The operature for the relationary or their states that the transport speed. The operature for the relative values in supported by an analyze character of speed and of a works optimized, which is supported by an analyze character of gallery, and to proves the relative time the project of the speed of the supportance of a glass take their actions. All the different parts of the apparents that are to be diffied with water are smaller to moreovering the life at operation parts of the apparents that are to be diffied this water are smaller to moreovering the the following the apparents of the train through a somewhat the apparents of the train through a part of the speed of the train through a page. The believe of the apparents of the train through a page. The believe of the speed of the research trains the apparents the apparents of the companies the apparents through a page. If the presence, and the six of goal to be the apparents in the apparents through a page. If the presence of the six of goal to be the apparents in the apparents through a page.

If the presence of the six of goal to the the apparents is to great the the example page. The train of the value, and apparent of the value of passes of goal to be the second of the train of the value, and apparent of the value of the second is the second of the train. When he to begin the trains also appear to the apprention the project of goal to be train. China.—"I claim, first, the peculiar arrangements of apparatus herein shows and described, or any modification thereof; and, accountly, any apparatus for regulating the flow of air or gas, in which tuch regulation to facted by scame of a coalcul plug, or the conical sed of a tube, oblice heliow or solid, rising into the aperture through which the gas passes, and teach affecting the conical sed of a tube, of the second sed of a tube, of the second sed of a tube, of the second sed of a second sed of a second sed of a second sed of the sed of the second sed of the second sed of the sed of the second sed of the sed of the second sed of the sed of the second sed of the second sed of the second sed of the second sed of the sed of the second sed of the sed of the sed of the second second sed of the second sed of the second sed of the second sed of the second second sed of the second second

from passing, as above described."

IMPROVED STEAM-BUILER.

Révard Hall, civil enginear, Dartford, Kent, for an improved steam-boiler, July 11.—The prement lavantice descists in adding one or two side tubes to an ordinary tubular boiler, so as to extend the heating-scribee, and produce the effects of a larger boiler, without augmenting the space ordinarily occupied by use of smaller size. Those enternal, or, as they are called, "feed-heating tubes," are placed in the side flue or flocs of an ardinary cylindrical tube boiler, and are connected to the boiler as well as to its isower for tubes, and the water anale to circulate through them, as afterwards explained. The patentes states that, in carrying this improvement into effect, he does not flad it necessary to confine himself to any particular dimension of holler, or number of tubes, or attachment of them to one another; but by preference makes each of the two feed-heating tubes of the same size as the lower tubes, and about the same length. "In their construction I prefer fixing each of the two feed-heating tubes of the same size as the lower tubes, and should neck towards each od, which are occured together with screwholts." If a does not claim the use of the feed heating tubes in the fixes of boilers generally, as they are known to have been used before; but be claims their application to cylindrical boilers with tubes below them in the fixe, as new, that is, feed-heating tubes connected with the tubes because by Hadrical builtans, and interposed between them and the boiler, without the feed water within less! the season of heating tiles connected with the tubes because of the lower tubes in its passage into the boiler. It is in such application and arrangement that he grounds his patent" for an improved steam-boiler," which have leading the point of doublition, is productive of very considerable observed with heats are approaching to or exceeding the point of doublition, is productive of very considerable observed with

ON CHANGES IN THE INTERNAL STRUCTURE OF IRON.

In the Mining Journal, of the 6th August, we published entire Mr. Charles Hood's able paper " On some Peculiar Changes in the Internal Structure of Iron to dependent of, and subsequent to, the several Processes of its Manufacture, which was read before the Institution of Civil Engineers on the 21st June, and we now lay before our renders the discussion that took place

Iron before which was read before the Institution of Civil Engineers on the 21st Jules-and we now lay before our renders the discussion that took place between the members of the institution after its reading.

Mr. Mount-Amb and frequently noticed that pins for chains and pump-redeathinous made of the best iron, would, if subjected to concussion, after a certain time, break suddening, and that the functure would exhibit a large crystalined textore. This was also frequently observed in the broken axise of road acrisage, although they were generally made of iron of the finest quality.—Mr. M. Wo one had observed the crystallized fracture in all the broken axise or railwise which he had seen.—Mr. Hono exhibited come specimens of broken axises, all of which showed a large crystallized fracture; is believed that the iron from which the majority of them had been made was of the best was a contracting the contracting of between the members of the institution after its reading. agons them a oscipht of tex cut, from a height of filters fort, without breaking one of them.—Mr. Simiroux expensed the chispations of the institution to Mr. Houst me beingalous in the institution to Mr. Houst me beingalous in the institution to Mr. Houst me beingalous which is in of the nineral importance to residence, should be nearliefly accomined. It was to be requested that the interpretate should not should be nearliefly accomined. It was to be requested that the interpretation do filter nearlies had been more particularly discussed to replicate a making a many particularly discussed to replicate as no the renew and of the adjust maximum precision, upon the production of the report upon the projected apparence, grows and filter filters, and the production of the report upon the projected apparence, grows and ty Mr. Hand, a very number discussion might be addictionable.

The sy Carryno and the immunes hydronistic sylvalures and for reliably visuals by the Serve Back Company of New York was cost on Theoreticy, at the Newdy Works of Means. Skillmen and Co. The cylinder was remark-two field long, its bore thirteen lacker, thirkmen of shell alone lacker, then required towary two tree—being by fir the language antiques of shell alone suche in this country. The iron was undied by these expends for more, commenced hierarcy I is clearly then consider to ran 19-16, assemble resources at 5-12, symmel above for country model at 2-16, time employed fire properties the more laborated and proved deflectives, and the companies of the control of the companies of the control of the con property determined to give their country a chaust, - deserves payor

ON IRON SHEATHING, BROAD-HEADED NAILS, AND INNER SHEATHING FOR SHIPS.

ON IRON SHEATHING, BROAD-HEADED NAILS, AND INNER SHEATHING FOR SHIPS.

BYJ. J. WILLINGER, R.G.

[From the Trondensies of the Institution of Unit Engineers.]

These three papers complete the asbject which the author commenced in the year 1541, and continued during the present session. The first treats of the use of heaten iron and iron sails, even in very ancient vessels, their corresion, and consequent aliandosment; the alicempted introduction of realised iron for the purpose of sheathing. It touches lightly on the construction of sense wasels, and on various attempts to publish them, while experience has now shown to be unnecessary, as the first Iron atchester, built by Mr. A. Manby, in 1931, at the Horsie, Iron. Works, has been in senstant use on the river Scienc up to the present period, without showing any symptoms of oxidation, although the only precautions taken have been to apply a coat of pitch as often as as a wooden vascel. Extracts are then made from Mr. Greatham's Treatics on Iron as a Malerial for Ship-bedistor. A list is then given of the patratty connected with Iron sheathing, and the various modies of preserving it from correction, alluding particularity to the valiable labours of Mr. Mallet (of Dublis) on this subject, in the archiven of the institution. The cost division treats of metallic sheathing, or a conting of metallic existe, formed by vision treats of metallic sheathing, or a conting of metallic existe, formed by vision treats of metallic sheathing. The sails used for this purpose by the Romana were lift the some form as those of the present day. There are authentic records of "Alling" being gueerally in use in this country in 1606, but it is continued in one until recording to the purpose by the Romana were lift the some form as those of the present day. There are authentic records of "Alling" being gueerally in use in this country in 1606, but it is continued in one of the stream and the purpose by the Romana were lift the same form as those of the purpose of the worm in the metallic

THE "GREAT BRITAIN" IRON STEAM-SHIP.

author has compiled from various sources.

* Hen Hising Justical of the 9th of July last.

THE "GREAT BRITAIN" IRON STEAM-SHIP.

The Great Britain, or, as alse in often called, the Mammolh, is progressing le a most anti-factory manner, and, it is expected, will be ready to float out of dock in about a mond? is time, and will be fitted out and ready for sea early in the spring. The failowing particulars respecting this noble ship cannot fail being of considerable interest—Her legs the 324 fort aloft, which is nearly 100 feet lenger than the longest line of-battle obje in our service justice the control of the contr

THE "PRINTS OF WALES" IRON STRAM-SHIP. -- On Monday this Tild "Prince of the first trip on her newly-appointed station, from fine ship necessarplished the first trip on her newly-appointed station, from Cark to Liverpoor, in the short space of 22 house and 10 minutes. The Prince is a very superior vessel, and reflects great credit on the builders The masses of Strand National to France," One may form as idea (says the Chommerve) of the extension lately sensoned by the needgation of the Government strain, packets from the following decembed of call for their manual rapply. On the 1th of Outsher ment, of one o'clinch in the afternoon, the Director General of the Fost-office will present in his hosts to the adjustication of 23,500,500 hillogrammen of cost, for the use of the mail-packets, and which are to be delivered as follows:—At Calmin,

An edition of Dr. Ure's Diretomory of the Arts and Sciences is in course of perceptival publication in the United States, the enhanciption for which is tre delines—the cost have was cleves.

1.140,000; Marwelline, 13,100,800; Mailts, 9,200,000; Syrs, 650,660;
 Athens, 1.290,000; Constantinople, 3,600,800; Alexandria, 9,600,000.
 Tulish, 25,600,600.

on all

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The costs
Me. A.ic.
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PROCREDINGS OF PUBLIC COMPANIES.

THE BANK OF ENGLAND.

THE BANK OF ENGLAND.

At the half-yearly meeting of the proprietors of Bank Stock, held in the the Bank purious, on the 15th instant, the Governon (W. Cotton, Esq.) and the court of directors having considered the state of the bank meconita, were of opinion that a dividend of 3j per coat, interest and profit for the half-your eading the 10th of October next, deducting therefrom 1d. In the 1L for the discharge of the income tax, should be declared. The paying of the income tax by the bank would diminish the "rest." in the extent of 3990l. In reply to a proprietor, be said the amount of the "rest," after deducting the amount required for the income tax, would atmed at 3,863,2861.; in April it was 2,859,2861., and the amount deducted was 1990l.—Mr. Wollayton inquired of the governor whether, if the court refrained for the while from declaring a dividend, the income tax could then be extracted from the profits? and the Governor replied in the affirmative. There was no occupe from the payment of the tax, which had afterned becamessed to them.—Mr. Thompson wished to ask a question of the governor; it was whether the directors expected payment for the trouble excanined thom and their coupleyer in the calculation of the duty payable in the 3 per Cexts, and 3 per Cents, stocks?—The Governor replied, that they did expect to be remunerated in the character of nesessoes and collectors, pro rade, according to the cinned to the bill, he considered himself competent to judge.—Mr. Figures and the chiractors could not hope for remomeration as commissioners; if they get it, it must be in the other character of assessors or collectors.—The Governon moved the declaration of a dividend of 3 per cent., deducting the 7d. in the li. income tax, "be expunged. The unsendment having been ecconded, it was put by the governor, and segritived by a large majority; the original resolution was then carried with only five discenticuts.

NORWICH UNION LIFE OFFICE.

NORWICH UNION LIFE OFFICE.

NORWICH UNION LIFE OFFICE.

A numerous body of the assurers in the above society mot at their office, in Norwich, yesterday week, to receive the report of the directors, and to take into consideration their recommendation on the propriety of declaring a bonus on all policies offected previous to June, 1841.

E. T. BOOTH, Esq., in the chair.

S. BIGNOLD, Esq. (the secretary) having read the advertisement convening the unerting, the CHAIRMAN said that he had much pleasure in meeting so large a number of the proprietors on the present eccasion; he would state the meeting that some circumstances, which it had been out of their power to control, had been the reason of their not having been called together comewhat earlier, but he could assure them the time had been well employed in making the accounts more complete. He was bappy to think a few circumstances had occurred which had created a more friendly feeling than had existed among them on former occasions, and the prosperity of the establishment had greatly increased; he koped, after the report had been would cand, that all angry feeling which had previously existed against this office would ease—that whatever might have been the feelings, or however high might have been the words used against the office on any former occasion, they would now be laried in oblition, and that every one of them would eadeavour, by every possible means in their power, to promote the interest of the establishment. In conformity with a resolution passed in January last, they had now placed before them a full and clear statement of the main; they had now placed before them a full and clear statement of the main; they had now placed before them a full and clear statement of the harms; they had now call on the secretary to read the report, after which he would be glad to now were any question that might be addressed to him.

The Secretarary, after reading the minutes of the former meeting, read the following

with the view of declaring what shall be the Amount of the Pount; he would be glad to answer any question that might be addressed to him.

The SECRETARY, after reading the misuites of the former meeting, read the following REPORT.

The committee of directors have much satisfaction on meeting the absured this day, smalled as they now are to lay before these the result of the transactions of the latter period. They regret that some little delay has taken place in calling the present meeting, which must be attributed to the anxious science of all consequents distinct and the accounts thould be fully examined, and the calculations made on the most been accomplished, and it affords there were confidence in stating that these objects have been accomplished, and it affords there were confidence in stating that these objects have been accomplished, and it affords there were proported to the anxious science of all consequents the memory of the states that the second delay has expected the states of the states of the states of the states of the states that the states of the

s persons or tensor, consensus of the part of their part / January 2005, 1012°, which alkedes to the fact, their all rise moter this conder the age of forth for any incomed at personal considerably lower than alternative of their officers, whilst from forth for all ty this society out the institutions would have bone greatly extensived, since the food on neverolation, for all distributed, would now have nonemarks to status househot, thousand powers, looked there electrometromes the communities local advanted that the mombate single fairly great specifical model increased with the propriety of joining this institution, a large strength and sufficient increased with its imagnification.

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or general thrie reasonations the property of joining this isotilization, a house strongth and uniform count increases with its amportune.

The cook account to June, 1961, was three read.

Mr. Ald. Fauractures made, is conforming with the wish expressed by the charlestes, he would ask one or two questions; but he wished it to be discinned, it was not with the view of districting the horsemay of the meeting. He was not used to the charlest excessive would notice all prevent. He would ask Mr. James if the sermonts new made out and sold-middle to this proprietors, were bosed to those made by him is 1816?—Mr. James if the consequence made out and sold-middle to this proprietors, were bosed to those made by him is 1816?—Mr. James (the seconostast) replied they were. The balance had been beingful forward, which had forward the data upon which they had acted.—Mr. Add. Fauractures.—Le tone a long discussion to take plane to redivine to the oliverance to be given to Mr. B. Bignold, as corretary. The execution had exceeded that it should then be middle, a pace, but some proprietors present though it district the build. a pace to him or account model that it should then be middle, a second to account him he wished to sold Mr. Somes whether, it modifies up the reconstact, be had given evold to Mr. Bignold for modifies up the reconstant, be had given evold to Mr. Bignold for mids, and a spine, and a suppose.—Mr. Add. F. account was abserved, that on that accounts of solars, and that the discountion. irs, and exponers.—Mr. Ald. Fannaparrans abserved, that on that access he had taken the liberty of asking Mr. disposed to make the discussion

of the question, and leave it open for a future period, as it would then hend to disturb the harmony of the meeting.—Here a long and friendly discussion took place between various parties in the room; and it was erbient the general iseting was in favour of lacrasing. Mr. Bignold's subary to 23001.

a.year; this was continued by the following resolution having been put and sarried without one dissenting voice.

The CHAITAMAN said a resolution had been moved and seconded, which he would put to the meeting:—"That it appearing by the statement of Mr. James, is answer to the question of Mr. Ald. Farebrother, that the occrease has only drawn for the sum of 28001, per annum since December, 1839, instead of 5 per cent, on the premiums, to which is is satisfied under the Deed of Settlement, which was confirmed at the last general meeting, this meeting, taking into consideration all the circumstances of the oursender by him of his vested interest under the deed, recommend the committee of directors to place his remuneration finally and definitively at the sum of 25001, per annum from November, 1836."—This was unminously adopted.

The Sucherrany said he could not sufficiently express his thanks to those goaltomen who had put so liberal a construction apon his consider. He begged them to look at the state of the society at the present moment. He feet it would here a comparison with nine-tenths of the societies in Landon. He was grateful for the expressions which had fallen from Ald. Fareboulter.

The Rev. Mr. Balley (Vicar of Stoke Holycrusa) then rose to move the receiving of the report. He was gired to his distinction research in public confidence, nad was receiving the public support. He hoped the pessericture would exert themselves in favour of the establishment; if they did it would rise still higher, not only at home, but in the opinion of the whole world. He would now move—"That the highly nationated the everthing which had falles from the reversing the public support. Mr. Loce.-woom, in seconding the resolution, sa

which had fallen from the reverced geutleman.—Mr. T. Stungle would inform the meeting, that the geutleman who had seconded the resolution for receiving the report wan the father of the nocicy—he standing No. 1 narriver in the hooks.

Mr. R. J. H. Harvey (one of the trustees of the society) begged beave to mere that the boson recommended in the report be immediately carried into effect. After the close examination which the accounts had gone through, and the clear exposition of that day, they could not hesitate carrying it out. He would therefore move—"That, pursuant to the recommendation of the directors, a homes of 10 per cent, be new declared on the amount of premium received, in respect of all policies in existence on June 30, 1641, and effected for the whole duration of ife."—Mr. R. StrwArr having seconded the resolution, the Chalmann put it to the meeting, when it was adopted.—Here a question areas relative to the most quitable made of dividing the boson, which was explained by the directors, who said, they had felt the force of it themselves; in consequence, they had taken the highest legal opinions on the question, which were in favour of the mode now independ by them.

Mr. Ald. Faremorium remarked, they had now their most pleaning duty to perform; it was an expression of their gratitude to the directors for the able manner they had carried themselves through one of the most severe orders men had ever passed. He would, therefore, mave—"That this meeting desire to express their unqualified confidence in the integrity and judgment of the directors, and also to offer to the chalman their but are pleasure in seconding the resolution, having been one of those who had been appointed to examine isote the conduct of the directors. He felt that the thanks of the proprietors were eminently due to the chalman their but are pleasured in second had with the highest antisaction.—If was then carried with accimal on their mind was, are our families to office; they had earlied out all that had been regularly attended the

MANCHESTER AND BIRMINGHAM RAILWAY COMPANY.

MANCHESTER AND BIRMINGHAM RAILWAY COMPANY.

At a special meeting, held at Manchester, on Friday, the 4th inst., to receive the report of the committee appointed at the last half yearly usesting of the propretere, on the subject of the proposed junction with the Leoda Railway, and of mactioning, or otherwise, an application to Parliamest to effect useb junction, by request of the CHAIRMAN (II. Newbery, Emp.), Mr. R. Harnoum (challenass of the committee) introduced the matter to the meeting, by stating that the committee had usualimously come to the following resolution, which he would submit to the meeting:—"That after a full consideration of all the existing risemstances connected with the Manchester traffic, and the proposed junction of this railway with the Manchester and Leods Railway, it is the decided opinion of this committee, that it is for the interests of this company to form the proposed junction with the Manchester and Leods Railway, it is the decided opinion of this committee, that it is for the interests of this company to form the proposed junction with the Manchester and Leods Railway, it is the decided opinion of the committee of the machester and Leods Railway, it with full powers to the directors to apply to Parliament at the excited period for effecting the junction, and in each manner as shall appear to them most advisable."—This resolution was, after some conversation, carried unanismanty, and the thanks of the macing having been voted to the chaleman, the meeting broke up.

ULSTER RAILWAY COMPANY,

ULSTER RAILWAY COMPANY.

At the balf-yearly meeting, held at the elation, Ulster, on the ath lociant, the directors' report was submitted, which showed that the total receipts from the traffic was 10,3461, and the expenses \$5311.—cleaving a balonce of \$171, act profit for the half-year. Out of this sum the directors resommended that a dividend of 9v, per share should be declared, which would loave us!, to be added to the received fund. In order to income having a copply of the heat cohe, the directors had determined to unacufactors their own, not they looked forward to the received that in this matter they had an occised a sound discretion. The total amount expended upon the wents of the line, and is providing the working storic, was \$14.8061, and, in order to meet further demands, an additional \$60,0001, could ctill be required.—The report was unanimorally adopted, and a series of hyp-lows progressed, which was, after a little discussions, also certed. A dividend of the, per chare was then declared, and the thanks of the proprietors were most expensively world to \$1. Gloodwin, Keq., the engineer and manager, for the acalous and efficient manner in which he had discharged his duties.—Alexander Henter, Jobe Hendy, W. J. Campherl' Alten, Andrew Milhelined, Josethan Richardons, solon Thomsons, and Josec Cloudend, Milhelined, Josethan Richardons, John Thomsons, and Josec Cloudend, Reighneter over declared to be deliged to the company.—A weight the declared.

Figure 1. Remains at Lymn.—At the meeting of the British Association Mr. Hawkshow read a notice of the feesi factorage in the new red anadotone at Lymn, in Cheekier. His object is doing an, he said, was meetly to recent another instance of those extraordinary impressions of feetmarks which had lately stricted an meet interest among geologists. After describing minerally the Lymn yearsy, is which the feeterope of the cheirertherium are found, he entered into some continua opensistions rere of that bey Chairt of the ex of this w

Lance Rore ron Messes Francesa.—A large rape, berarded as Thorsday last from Messes. Cultart, Clark, and Co.'s works, in Lodgehase, appeared to attract considerable attention, whilst being conveyed through the stends, on its way to the place of shipment at the Duke's Duck, and various were the securious as to its intended use. Though made op into the outsidest possible company, yet the cold was nearly thirty feet in circumference, and there feet in depth. The rope was 200 fatherns is longth, made without a option, and thirteen inches in circumference, and contained such a number of perm, which, if singly extended, would have reached the distance of about 350 miles. It was made, we understood, for a mine on the midland countre, and intended to be made for lifting for a mine on the midland countries, and intended to be mared for fifting the prosp-gene, often of great, weight is such works; and, as no expenses is over operad by the proprieture of first-rain mises, the respect and by them are always ordered to be made of the very best motorials and overk-measuring. The rope new actioned countries, in these particulars, to exhaut the highest could, so well on the measurements or the proprieture of the mine, exhibiting the skill and ingeneity of the former, and the linerality and exterprising special of the latter,—Liverpool Standerd,—(We believe that in Cornwall the capation represents an exception or eventuess in circumstants.) inches in circumference.

rederection of callroads. They are said to be in every respect equal to wood, occupying the same surface, and having the same flexibility. They are so made that they will leat ten times as long as wood; and the prive is searly the same.

PLYMOUTH AND EXETER RAILWAY.—A meeting of the committee of the proposed Fiymouth and Exeter Railway was held on Wednesday, to receive the report of Mr. M'Neit on the eligibility of the three asparster ilmes of read already our-regad, when it was determined to call a public moeting of the abareholders, to take the matter into consideration. Yesterday a meeting of the shareholders took place at the Chuldhall, T. Olil, Ecq. M. P., presided. It was to receive an abstract draws up by the emomittee of directors from a report made by Mr. M'Neil, on the three lines of read already surveyed between Plymouth and Exeter, and his opinion as in the eligibility of each, when it was determined that a committee selected from the present provisional directors should be printed for publication presions to a public meeting, to take place at the time that may be appointed by the committee.—Next of Magdand Camerendies.

EASTERN COUNTER RAILWAY.—A special seasion was held at the Angel Inn, Kelvedon, on Saturday, the 3-I first, to take into canciders time a complaint made by Lard Western against this company for obstructing the carriage-way through Rawley-tane, situois in the above partials. After a very long hearing (during which a considerable number of witnesses were cannoteed) the bruch adjudged the company to pay a possity of 4001.—viz., 201. per day for twenty days during which the ubstraction and expressed with Meester, Samuda, Brethers, were senied this day, by the Dublin and Kingstown Railway Company. Mr. Dargan is to have the continued to the presence of passengers between Kingstown and Dalkey by the iss of May, soud treat and agreement with Meester, withing will be ready for the conveyage of passengers between Kingstown and Dalkey by the iss of May, soud then expressed and the company whic

Letroid Avn Attending Hattanan .- The section of the Sason rail.

Latrace And Alvancias Balladam.—The section of the Sasan relifered which runs between Leipeis and Altenberg was tried on the 7th inst. The distance, which is five and a half Gorman miles, was perfected from Leipeis to Altenberg in fifty-from minutes, and leach again in fifty-from minutes, including stoppages of the different stations. It is supercond that it will be opened to the public by the next fair.

Amendian Ratharam.—We leave from the Reading Journal (U. S.) that the engineer sent by the Emporar of Ametric to examine the suchassines in the United States, has fixed upon the Philodolphia and Radding Reitrad on the best made in the union. The engineers of the various stations are buelly engaged propering densings, &c., of the most important works for the sent of the Ametrica Government.

Parkamarata and No alvance Ratharam.—The consists on this lines for May lest presented to 20,000 dellars, which is considered a very large amount, on the country was in a very depressed date, and but a few hamaders too of read were corried desing the month.

A Jack Tan's Inca or a Lecturerryn.—" Why (says he), there's

dend tone of end were corried during the month.

A Jack Tan's Inna or a Lorenserve.....' Why (says he), there's nothing money should be consequent to the best of the bready, toping down to it just enough to show that first the bready, toping down to it just enough to show that first the bready, toping the sproy from her break, and lifting her head over the seen as if she singued over 'em.—there's something like life there. There's something police should be break as if she singued down to be seen as if she singued over 'em.—there's something police should be break as the she was going, and press of the duty, and shie to do it. But the better—head I that there enceutes common

duty, and asks to du it. But the behiner—but I that there conserve commes instincting, aneating along, creating on his helly like a thandacing long cashs with a pipe in his moreth."

Sair Bernaras or vite Warn.—At the sale of the check, he brade of finitur, step-building motorists, and vessels on the checks, at Mr. Roder's Rooy's, North Hytom, the prices realized planely indicated better pronounced for ship-builders, and the alonging laterest generally, set tember ranging from 41. In M. 10s. per leaft—wither kinds in proportion. A feeviral to this ancest extractive and busing branch of non-build commence and indicately, or important to crievy clear on buch adder of the War, is assemblingly absorbing.—Northern Planes.

ingly electring — Northern Thués,

Connectorring on Court in France.—The connection of spai in Facia,
in the past 1820, was 500,000 horisticus, which had incremed in Lying,760 in the year 1810.



erable Dr. Dalton was, a few days since, in the enjoyment of his capable of undertaking his regular exercise; but, from his grea-expected that he can long remain with us. Branages Rassacuaeve. The insertion of the communicative planeath, is not requisite, as one, in another column, from it

sarras....The subject has been repeatedly noticed in our column possibly appear in our sent.

THE MINING JOURNAL. Mailway and Commercial Carette

LONDON, SEPTEMBER 17, 1842.

The gratifying intelligence we have elsewhere announced, of improvement in the iron trade, we are glad to find corroborated by this morning's post. One correspondent, under date Beaufort, September 16, writes :- "It is with pleasure I have to inform you that a very great improvement has taken place in the Welsh ironworks. At Cyfarthfa they contemplate blowing in three blast furnaces-Penydarran two, and Dowlais two-which will, of course, give employment to hundreds of men, who have been thrown out of employment in consequence of the Varteg and Victoria Works being at a complete stand. This improvement in the iron trade, and the reduction in the price of provisions, will add very materially to the comforts of the working classes - and, indeed, the whole neighbourhood." This statement is also confirmed by other cor-

The pampilet of Mr. JOHN HASSET, late Member for Helston, and representative of the DE DUNSTANVILLE family, calls for more than a mere passing remark by way of review, more particularly as the arguments adduced are founded upon the observations which have appeared in the MINING JOURNAL on the New Tariff, the principles of which, and the advantages calculated upon, that gentleman upholds, considering that the effects will be for less disastenus than those contemplated by us, and, at the same time, giving credit to the Minister for the policy of his measure. We need hardly say that we do not concur in the correctness of the deductions drawn by Mr. HARREY, but as it will be necessary to illustrate our position, and, at least, ou leavour to establish its correctness, we defer until next week offering any observations on the pamphlet, which shall then receive full notice, and which, in the meantime, we recommend to the perusal of our readers, whether adverse to the measure or otherwise.

In the absence of a "School of Mines," which we are, however, yet canquine enough to believe will be established by Government, which gives its support to " singing for the million," it is gratify ing to find, that the example set , by the Durham University has not only been followed up by the council, or directors, of King's College and the London University, but that the department of civil engineering in the latter establishment promises to become far more useful than we could have expected on its first formation a result, doubtless, attributable to the success which has attended the early efforts in the probationary school, for such we may term it We have not space to enter into the system of education provided under this head, but will endeavour next week to offer a summary which, although not complete, is an odvance, and, if well supported, must lead to results highly benedicial to the rising generation Practical education, however, is must essential, and we augur well from the lectures delivered by Professor Vianosius, " On Civil Engineering," illustrated by visits to railways in the neighbour hood of London, more especially the Croydon line, the observations on which will not be soon forgotten by the student, the directors, or their angineer

We have devoted more than the ordinary space to which we limit our notices of the proceedings of public companies (except on cotracedinary occasions), in giving a report of the meeting of the shareholders and assurers in the Norwich Union Life Assurance Company, for, inasmuch that our reports, when of a longthened character, have been too oft in cases where exposure of abuses has been the object, it is, on the present occasion, a more pleasing It will be in the recollection of our to report ferr readon, that there has unfortunately existed in this company a divariety of opinion, and, consequently, that, with the most satisfactury prospects, such have been cheeded by the differences existing with the proprietary in recording the amirable arrangement which has been effected, we consider our cohennes are not only usefully employed, but that the desire is evinced of awarding movid where shap, as well as it is over determination, on all pressions, to expose chiconery and freed.

It must have been highly gratifying to the securers to learn, from the chairman, that a more friendly feeling exists with those attrested, and that "the prosperity of the establishment had Seemly increased "-aprile latter as consider a natural consequence dant on meanismity. The surplus, or prodits, for the twelve mornibs earling 30th June, 1841, is stated at \$0,236f fee. 2d.

ng four years—such | IMPORTANCE OF THE USE OF IRON IN SHIP BUILDING. profit auking the surplus assets on 30th June, 1841, to amount to 183,016l. 10s. 6d. We refer to the report for particulars of the roccedings, contenting ourselves with congratulating the directors and officers of the society on the resolutions passed, and their having gone through the ordeal so highly satisfactory, which is, perhaps, best illustrated by the observations of Mr. Aid. FAREBRO-THER, and the resolutions in favour of the directors, and Mr. Beg. NOLD, the intelligent and able secretary, to whom it is acknow ledged much merit is due for the success which has attended this

The question of precedence, or patent right, which exists between Mr. SAMUEL HALL and Mr. CHARLES WYE WILLIAMS. is one, we apprehend, that will lead to much correspondence, judging from the letter of the latter gentleman, which appears in our columns of to-day. We are glad, however, to find that Mr. Wil-LIAME's letter is couched in less personal terms than that to which t is a reply; and, as Mr. WILLIAMS expresses his intention of learly demonstrating that the patent, or mode of application adopted by Mr. HALL, is an infringement on his patent, and not in accordance with the specification entered by Mr. HALL in 1836 and 1838. we look forward with some degree of interest to the letters or exposition promised, trusting that both gentlemen will confine themselves to the simple question at issue, and not indulge in person alities, which at all times detract from the weight of any argumenwhich may be put forward.

In our columns of to day will be found a communication from Dr. PAVERNE, on subject of his submarine experiments, animadverted upon in the letter of a correspondent in last week's Journal Anxious, at all times, to award the meed of merit where justly due, we await the publication of those details comprehended in the specification, ere we offer an opinion; but we can readily imagine in their absence that the like object may be achieved by two different parties, without collusion, or previous knowledge of the plans adopted by the one or other, while success may attend both, and yet acquired by different means. We have been led to consider Fut-YON as the mechanic-the result of late experiments would induce us to consider Dr. PAVERNE as the practical chemist, and we can understand, that, while the one has the power of constructing a submarine boat, the other may have accomplished the grand desideratum-that of availing himself of the construction of the former, and rendering it practically useful, by forming or constituting those gases, or air, necessary for life, where the inhalation of atmospheric air is cut off, as in the case under consideration. We hope shortly to have it in our power to enter more fully into the merits of the discovery, and, in the meantime, recommend the letters which appear in our present Number to the attention of our correspondent, " J. F. C_u " to whom we are indebted for directing correspondent, "J. P. C. our notice to the matter.

BINKING FOR WATER IN THE CHALK FORMATION.

SINKING FOR WATER IN THE CHALK FORMATION.
At a late meeting of the leadination of Civil Engineers, Mr. F. Braith-waite presented and explained a model of a well sunk by him in the year 1841 at Meases. Reid's herwesy, in order to obtain water from the chaix, which had become indispensable, in coincequence of the decrease of the supply of water from the send spring. On examining the lawer part of the well, which had collapsed in 1814, he friend that the dimensions of the cast-iron cylinder to be instruded smoot be limited to 5 ft. 3 in. by 3 ft. 2 in.; it was commenced at the depth of 67 feet from the surface, and carried down 135 feet, to within it. 6 in. of the face of the first heid of flints in the chaik. Being desirous of retaining all the water from the surface period, he inserted an internal cylinder, which was cash into the chaik at a depth of 138 feet from the arcface—thas effectually shutting out the sand spring from that of the chaik, but permitting the former to flow to its nervatement fewel in the space between the two cylinders; and, to make this supply available in case of need, coaks were inverted in the internal cylinders at convenient depths. He then proceeded with the expansation is the chalk, increasing the dismonstons at every final in depth, until, at 178 feet from the arcface, the diameter was 16 ft. 6 in.; the , at 178 feet from the surface, the diameter was 16 ft. Cia.; was continued at that diameter to a depth of MII feet from depth, until, at 179 feet from the surface, the disanceter was 16 ft. 6 in.; the researchies was continued at that disanceter in a depth of 102 feet from the surface. In the progress of the work, water was found under the scenaria, sixth, eighth, and trath both of flints, and the total supply at this period was man bearing a 17,000 gallons, per day of twenty-four hours. At 195 feet from the curface the first tunnel was driven absety-one feet north-west in the direction of monther well, which only increased the supply 400 hacrels, or 14,400 gallons, in twenty-four hours. The eighth bod of flints, at 154 feet from the surface, yielding the largest quantity of water (300 barrels, or 10,500 gallons, in twenty-four hours. The eighth bod of flints, at 154 feet from the surface, yielding the largest quantity of water (300 barrels, or 10,500 gallons per day), he draws a second thome, in feet, by which he obtained an increase of 1300 harrels, or 54,000 gallons per day. Having ascertained, by horing, that a further capply of water could be obtained in twenty feet below, he continued the zenavation twenty two feet deeper by some for diameter, when he from water towing from two horizontal discarre in the chalk without fints; at that depth in drawing the town two horizontal discarre in the chalk without with the first inned, ninety-one feet lung, by which he obtained in increase of 3100 harrels, or 13,500 gallons per day, the second tunnel in the substance of first hours, or 130,500 gallons per day. The total quantity of water these obtained from the chalk was 7700 harrels, or 277,000 gallons pine day of twenty-incre hours, or 130 gallons per minute, or reservoir in the chalk was 7700 harrels, or unique, at the came to the count contains 100, uniquines. He dated the hotal exponent in be chalk which could contains 100 numerals and he coved of two new sets of parameters towns. He stated the total exponse to be under 7000d, including the hire and repair of temporary pumps, and the root of two new sets of permanent pumps.

ARTESIAN WELL AT SOUTHAMPTON. -- The greatest excitement vailing in Southampton from the failure of the Arteaian well. Mr. Ri-chardson, F.G.S (of the British Mnorem), has been engaged in tracing the cause, which he has promoned to be incomprehensible, as no work could have been conducted more consistently with genlinginal principles; the sell has been ascak to an immone depth, and its present tremination is in the heart of the chafk Semestion. The greatest distress is felt in the town

ARTESIAN WELL AT GRENTELE, -The workmen contin eplayed in patting down the tolus in the Artenian well, and it is supposed that the work will be completed by the end of the present menth. The public ore still excluded from visiting the well.—We since hear that the taking is now searly completed. During the last two months the water coming from it was perfectly bropid, and its host uniformity maintained it off at 27 \(\gamma_p\) degrees of the contiguade theremeneter.

Inco Works or Farance.—In the town of Alain, devoted to iron-

works, there are four high blast formaces, twelve pushling farmaces, and ion halling farmaces, and 136 roke overs. The coke works are at Grand Combs. Three formaces (two cold-blast, and one hot-blast) are at work, positioning 2000 times a week. The fourth formore is not yet at work. The two cold-blact formores formorty used but blact, but gave it up, decling that it did not seawer. Ment of the iron produced is converted into rails. Three are two stress engines, one of 90-heror power, and the other of 30-STRAM-BOLLAMS.—Mr James O'Camer, in a memorial to Congress of

the United States, on the subject of steam boilers, says that a street built case-at he beared up to 1807 without certain and law dahin explasion. A general knowledge of this fort, it is thought, would prevent the overnot of such appalling entestrophus as have been witte

Ms. Purus Ewast......We regret to learn that the well-knows and requested inspection of sizesm-regimes has just retained, from the effect of the blow he received on Thursday week in Windwich Dork-pand, from the mobiles howevery of a chain ratio while basing tracking of a chain ratio while basing tracking of a chain ratio by the basing tracking of a chain ratio by the basing tracking the set strength him on the basis direct him while most the set of the principle. flows book and strenk him on the body, deiving him with grout force against the wall of the proof boson

interest of this country is one of no ordinary im-The fact that the minorals which lie rickly stored beneath the soil of Great Britain, whon rendered available by the industry of our people, compose one of the principal sources of our national strength, is now so commonly acknowledged as to have become almost proverbial. Every fresh means by which the demand for the productions of our mines may be increased, must be hailed as a direct gain to the nation at large. While unemployed the ore is perfectly valueless-it is so much of the country's capital sunk and lost; but when, by the efforts of man, its virtues are drawn forth, the products are all clear gain. A small portion of it goes into the pocket of the owner of the land, and a very large proportion of its value cos the amount of wages paid to the labouring classes employed to raising and converting it. It is needless to trace the advantages that result from such sees, and the very important part such operations have borne, and may, to a much greater extent than heretofore, be made to bear, in supporting and perpetuating our country's glory. There are, however, two additions siderations that render the question one of paramount importance. We may first inquire-Can the metals produced from our mines be employed as substitutes for materials brought from other lands, by which our capital is drained out of the country? And, secondly-Will the ar. ticles manufactured from these metals be superior to those constructed or manufactured from the foreign productions? To both inquiries we may give the most decided answer, that by employing Iron as a material for ship building we use it as a substitute for the timber of other countriesat the same time, that we construct a vessel in every respect superior, and which, in addition to its direct advantages, such as in durability, stowage, &c., will enable our own mercantile marine to cope with the ships of foreign countries in freights, and reverse the order of things at present existing-facts brought forward by the Government commissioners employed in the inquiry, clearly showing that it is quite impossible at present for our ships to maintain their ground, while foreign ressels can work at such reduced freights. To all these, and to many other advantages, does this subject give rise, that we do not hesitate in ancing it one of the highest national consideration, and worthy of sdividual and legislative inquity. We will, however, take a few momenta to show, by figures, to what extent the substitution of iron for timber in ship building will be found to be advantageous; in doing this, we, at the ame time, contemplate that much more of the ship will be built of iron than at present-an opinion in which we fully agree with Mr. Grantham. and that not only the hull, but the masts and rigging, will be of the same material; for evidence of the latter we refer to the report of a trial in the case of "Smith v. Watson," given in our Journal. If experience should prove that we are correct in our opinion, all the most costly parts of a vessel will be of iron-leaving, probably, not more than one-eighth of the whole of any other material. Supposing, then, the average value of a ship ready for sea to be 20%, per ton, 11%, 10%, will be expended in iron. work, and, taking the shipping required for this country at 200,000 tons per annum, we show an expenditure of nearly 3,500,000/, sterling in ironwork alone, a very large proportion of which is caused by the wages paid for producing and working it. This calculation allows nothing for the ncrease that may be expected in the number of our ships when better ship to compete with foreigners. Mr. Grantham has, in different ways, urged

that calls loadly for inquiry, STATISTICS OF BANKING-SCOTCH BANKS. SEPTEMBER, 1842.

this important consideration, and has shown that, in consequence of the

difficulty of getting timber for our vessels, our docks are crowded with

colonial and foreign-built ships, so that a very small portion of their east

is expended in the employment of our own people, and a very small por-

tion of the materials is the production of our own soil. By this simple

illustration we hope we have shown that the question of iron ships is of

the first importance for England; and when we contemplate the prospect

of the result of steam navigation, and on the mavy, it assumes a character

Name.	Estab.	Bras	nebes.	Parts	HEE'S.	Capital.	Pold.	- 9	vice	
Bank of Scotland	1695		305	630	9	. 000,000	100	195		1
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Dender Banking Co	1761	***	1	. 21		64,800		456		1
Portis Banking Co	1,65 ,		2	. 179		100,610.		110		-
therdeen Banking Co	1,767	4-5	88			740,000.		100	ones.	
Ayr Bank	1778 .		7			Private .		-	-	
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intional Bank of Scottand	INES .	60	88	. gás		500,000.	10	14	-	à
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satern Bank of Spottand	tuse .		6		-	604,000	18	51	2.5	ä
niedonian Banking Co	1690	110	18			71,600 -	31	9	16	ă
ainley Commercial	1859		8			140,00g.	10		1.0	×
distory's and Leith Bank			18			580, MM.	A		54	ä
My of Ginegour Bank	1500 .		1			616,254.	62		ER	â
remark Union Bank			4			\$10,000.	8	- 1	-	ä
Daugurw Joint Misek Bank	1940					164,000.	28 .		12	ä

TIME BARGAINS IN SHARES .- The publication of a closer in the new The Bardann is Suarra-The publication of a classe in the new Bardanpt Act, which will shortly come into operation, has caused some unconinces among the dealers in shares. This set will reach most of the partice usually engaged in time largains; and the classes particularly almost operation, that all certificates shall be vaid, if the backrupt, "in any gaming or wapering, loses 20%, or within one year next preceding his bankruptey has lost 200%, by any contract for the purchase or sale of any Government or other stack, where such contract was not performed within one week after the contract, or where the stack hought or sold was not actually transferred or delivered in purposation of such contract." A more complete death-blow to then bargains can acceptly be conserved.

Passen various or Nevaru or Server.—M. Demond has for a long

PRESERVATION OF NITRATE OF SELVER .- M. Demord has for a long Passavarron or imple process for preserving the nilvete of all on the injurious effects of exposure to the sir when run into sticks, maintain surely conting the custoric with engravor's sealing-wax, who This was adheren very well, an ntains a large quantity of shellar. forms a strong and smooth varnish, as it were, which remain or smooth forms a strong and possess various, as to very man to be agains the fin-pera, injures the caustic case, nor is in any way changed by the monators in the air, possesses a greater degree of solidity, and, at the same time, the present is of exceeding service is practice, insurance as when wanted for ane, a small part only of the recedir need by tenescoped by means of a per-lantic, so that its application can be exciteted to the part where it is required. haife, so that its application can be restricted to the part where it is requ

Exect. Russen Pavewayr. — Who would have thought of paving or streets, stables, and possegre with India-robine? Yet such a thing seem to be expected, for we find in the Polydednir Jumped the notice of a plan for an doing. The price will be about the name as the best angleste. prevenent. It is so clearly that it will not first use with the bearing block which property prevents its wearing eway. It can be altered, espained, or rehalf, at a construction, as the old material can be taken been and so worked. We have understood that many persons of high rank lase or dered their stables to be laid down with the equatelesse parament; the advantage of which, to the feet of hopers, ment immediately suggest just

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COAL-FIELDS OF GREAT BRITAIN .- No. IV.

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COAL-FIELDS OF GREAT BRITAIN.—No. IV.*

UPPER DIVISIONS OF VHE UNDER COAL FORMATION OF THE VALLEY OF THE CLYDE.—In the fourth Number we described, in a brief manner, the general character of the upper coal formation of Lonarchabire. Before noticing those that underlie the both of fresh-water origin, it may be noceasary to mention, that, from the bosh-like form of the formation in question, we are convinced that it originated in a lake, probably camented with another on the east, which stretched through the counties of Stirling and Limithpow into that of Fife, and not in an estuncy. Another pred is, that wherever the upper beds are observed in contact with those of decidedly marine origin, we have proofs of great distarbance in the occurrence of numerous faults and troubles in the stratification; and this point of contact enumently occurs at a considerably higher level than the central parts of the basis, except at its western extremity, near the city of Glasgow, where desudation (1) has taken place to an onormous extent.

The faults of the upper coal formation of the valley of the Clyde generally run from east to west. They vary in extent from a few feet to seventy or eighty fathense; but, in the neighbourhood of Glasgow, they run from north-east to south-west, and are so abundant, particularly to the west of Govan Collieries, that streat nearly 200 fathense distant, in the vertical section, lie at the same distance from the surface in contiguous fields. The faults are, apparently, all upthrows in the direction of the tract occupied by the lower formations. Demudation neems to have taken place to a much greater extent on the south side of the Clyde than on the north, incomuch that we have several marine limestones occurring between the lower coal beds on the north side of the basin, while, on the south, only one or two are known. The real position of these limestones, and of the subjecent struct to these articles, in 1836, made the survey of the district,† and was after a and a coal of the part of the part of t she we have several marine lineatones, occurring between the lower coal bode on the morth saide of the basin, while, on the south, only one or two sew known. The real position of these lineatones, and of the subjects strata to the cash constituting the upper series, was not known till the writer of these articles, in 1836, made the cavery of the district, † and was afterwards engaged in superintending the mineral researches made by the magistrates of Giasgow in the lands belonging to the city. By these researches, and others made in the district, the determined the existence of these lineatones interposed between the lower and the upper coal strats, one of which, the calm lineatone of Bedlay, had only been known, or, if the others had been discovered, no knowledge whatever as to their true position existed. A knowledge of these beds is of the utmost importance in understanding the geology of our coal-fields, forming, as they do, an excellant index to the nature of the stratification on either side of their our cereps. The lineatones are well defined as to their mineral composition, thickness, and ascenopasying strats. The first bed, of which we have positive knowledge, is the calm lineatone of Bedlay and Gerakirk. Room, with a parting of energina (2) shake about eighteen lockness thick. It is overlaid by a hed of blue frisble shale, measuring from twenty to fifty or sixty feet in thickness, and containing occasionally products (3), energia, and orthocerative (4).

The lineatone is slightly ferruginous; it contains rather more than 40 per cent. of line. It is evolupit principally for the supply of the iron-work near Airdries and Giasgow, at the following places:—Petershill, Mitton, Garakirk, and Bedlay. It ranges east and west from the neighbourhood of Cumbermatic to Glasgow, at the following places:—Petershill, Mitton, Garakirk, and Bedlay. It ranges east and west from the neighbourhood of Cumbermatic to Glasgow, at lockness and east of the control of

	Fu	B. 1	R.	No.	1	Fast.	m.	in
Boother was not treat			4	-6	Conference		8	4
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Continue of the second	2	4	

neel real is the inwest workship seem in this division of the so ries. At Corbrold it conside of soft coal, six inches; gas coal, two feet; taspere caal, four inches; soft coal, six inches.

There is often in connection with this seem a blackbased constant, mea-

seeing from six to tem or twelve inches in thickness. This hand is of good quality, and is wrought at present at Jordan-hill, North Woodoldo, and Keppach-hill, on the north side of the river, sed at livers on the nouth. There is another blackhand lately wrought in Kelvin Grove, and at present in Keppach, found in connection with a coft coal, seventeen to eighteen fathous above the cannel coal. It measures about a fact in thickness, and is also of good quality. There is, doubtless, a great abundance of these valuable incentions in this locality.

Our limits forbid us to enter further upon the consideration of this portion of the strats. In our next the lowest, or clay, irosestone series will claim our attention.

O (I) Being woohed away. (2) Cantaining oscitation, the remains of marine mosphyses, which had the appearance of a lifty in some of their forms; besoe they are also called crinoidina—hilly formed animals. (3) Shelis with two valves, one custour, and the other concave or hollow. (4) Chamberot internal shells, straight and tapering, and pierced by a typhuscile of pipe. (b) A conicci, or pyramidal, shell, with insportorated began, divisions between the chambers, month half closes. (f) A flat spiral shall shell, angular in its convolutions and aperture. (7) Shells allied to the neutilias. (6) Small bivalve shells, allied to the ark shells, with many teeth on the hiege.

CAPT. A. VIVIAN—TRIBUTE TO DEPARTED WORTH.

[raom a commanwes.]

Whon such a man as the late much-respected and talented individual, Captain Andrew Vivian, of Camborne, passes from among us, "to that country from whose become no traveller returns." his death descrives more than a passing notice at our hands. Duscended from respectable parents, he received an education fitting him for the station in life which he was destined to fill, and, from his thorough acquaintance with mineralogy and mining operations, the neighbourhood in which he lived derived immeasurable banefit. The renewal of the works of the abandoned Dolonath run of copper mines, and Nurth Roskeur, which subsequently proved eminently successful, whereby a dense population has been kept throughout a series of years in constant employment, were the result of his exertions, as were also those of Crenver Oatfold and Wheal Abruham, Binner Downs, and Wheal Trensury, with similar results. In testimony of his invaluable services, the Dolonath adventures, through the late right has. Lord de Dunstanville, in the year 1806, presented him with a hanisome piece of plate, with an appropriate inscription. Being one of the principal mine agents of Cornwall, he was repeatedly required to give evidence before the House of Common touching mining affairs, and, as such, mainly contributed to procure the allowance of debenture upon the Norway timber used and consumed in the mines. He was well grounded in the science of mathematics, and, as an engineer, ranked with the first of his day. To him, in conjunction with Trevibick, is the world indebted for the construction of that gigantic and wonder-working machine, the locomotive-orgine—a distinction of which Cornwall may justly boast. The author of this brief sketch well remembers an ovening in the year 1801, when Captain Vivian first made his experiments upon the common reads. Its novelty attracted together a great concourse of people; the levisthan machine proceeded through the town, treading the streets in the power of h CAPT. A. VIVIAN-TRIBUTE TO DEPARTED WORTH. and the fire and smoke escaping from her, gave a wild romantic effect to the whole scene, and led a quaint old lady to ask—What will they attempt next? at the same time exclaiming, she could compare it to nothing less than a walking devil. For this invention, in February, 1802, he obtained a patent, and shortly after sold the patent right to Meoers. Boulton and Watt, who also presented him with a superb piece of plate on the occasion. The extraordinary energies of the late Captain Viviani" observer and faculties and powers of mind were strikingly lifustrated by the fact, that at one period of his life, besides that he was an extensive banker, which business he conducted with great-credit to hissself, he carried on a large business as a maltater, tallow chandler, and general merchant—aspectatorided the management of eighteen mines—was the confidential agent of several considerable londed proprietors—and, within, was no inconsiderable experimental farmer. He was sincerely public-spirited, and ever found ready to join and promote every undertaking in his opision calculated to conduce to public good, and posterity will acknowledge to him a debt of gratitude. Possessed of a great fund of wit and humour, he had the talent of relating anecdotes in a very amusing and agreeable manner, which, united to a remarkably cheerful and frank disposition, rendered him a most desirable companion. In acts of benevolence "large was his bounty, and his soal sincers." As a kind and indulgent parent he was never surpassed, and the fatherless never failed to find in him a friend and protector, nor did be ever permit deserving objects of digrees to ask relief is vain. Early in life he became the confidential agent of the families of Trolowarren and Pendarves, generously sociation of his office, the present baranet, Sir Richard Rawlinson Vyvyan, and our precent worthy Member. Mr. Pendarves, generously sociationed his seleries to the last, the was for some years a constant member of the Wesleyan Methodist Society, and died in the fall ass

IMPROVEMENTS IN THE MANUFACTURE OF SALT.
The monufacture of asit consists in evaporating the natural brine, or estificial brine farmed from reck-solt, till the salt crystallises; and the higher the temperature at which this is carried on, the finer is the walt. In the old process, rectangular flat Iron pans, of a moderate size, were used as boilers; but of late very large pans have been introduced; and there is ut present a salt manufactory, in which the catent of pannage is three utiles long by eight fact wide. Some improvements in its measufacture lately introduced consist in avoiding the evil effects of the "pan-accratch"—a technical term given to the earthy motion which used in languat the bottom of the first boilers, and coace the expid destruction of the iron by that fire; also in economising the heat. To gain these ands the boilers or pans are made very long, and the fire is appoiled only to a part. Above the part which is ever the fire a cover is fixed, which dips a little way into the boiling fluid, so that the ateam which is driven off is pussed through a pipe at the top of the cover, and employed in warming other pans producing salt of inferior quality. The boiltoms of the holiers argumed to the fire over concave; and the fire being applied only to the middle, the coloration of carthy matter on the housed ports of the holier is avoided. The hot water formed by the condonaction of the size is applied to warm from boine, to be admitted to the pans; and the heat of the flass from the fire is cappined in a "stoving-house" to dey the manufactured salt. IMPROVEMENTS IN THE MANUFACTURE OF SALT.

here is compleyed in a "stoving-house" to dry the manifectured soft.

Laan re was Universal Status.—We hears, from the Miners' Journal, that the whole quantity of lead smelted within the last year was about \$50,000 pigs, of which there have beam received in Baston 151,554 pigs—being more than one-third of the whole amounts produced, and the principal part of which was manufactured there.

Da. Karn.—We are inappy to learn that this gentleman has mostly recovered from the effects of his arcident at Liverpoot, and will shortly be able to resume his lobours, in the development of chambeal arismos—the fruits of which we hope to have the pleasant of chambeal arismos—the fruits of which we hope to have the pleasant of chambeal arismos—the fruits of which we hope to have the pleasant of combustion, and the general management of formeres.

NATURAL HISTORY OF THE DEAMOND, -In a work published at Leipsie during the present year, are some observations to this interesting mineral substance, which are corroborated by very accurate diagrams, and several new data added to its bissary. It has been confirmed by late microsesping observations, that the discount is not been construct up and moreover-ping observations, that the discount citizer in the spate of its crystal, or in the sakes which remain after combustion, extellite substances which cannot be considered bug vegetable cellular tissue; this, certainly, will affeed a over close for the final chambelian of this poinces. It would ap-pear, then, that the discount is a closeged and crystallical regetable body. Why it is that the attempts of making artificial discounts here been be-lieved moreover. Why is is that the attempts of making artificial disascends have been between associated in explained them:—" It is just an account to the composition of the composition, increased the diamond, as well as which were the especial conditions and circumstensis which accessioned the organization of the cortion into a disascend. Still, we know that the presence was no extendingly slow and, and by no disease accessionable for a high dispress of two-presence, also the excluse conduct an inter-level are reputablised—on the contrary, it would have been converted into a black provider. The late abservations of Dr. Linking point also shall way. The exclusive experience his belief, that, other all, the artificial production of the finance of exception of the finance of exception. the dissipal will proved

MR. S. HALL'S MODE OF ADMITTING AIR TO FURNACES.

MR. S. HALL'S MODE OF ADMITTING AIR TO FURNACES, TO THE BETTO BY THE MINISTER SURNACE.

Sin,—I had intended, this week, with year permission, to here stated the grounds on which I sliege, Int, that Mr. Hall's mode by which he proposes to burn coal instead of oaks, in incometive-ongine farmace, is a direct infinity, and in a manner no opposed to chooming principles, as necessarily to produce failure; and, 3d, that it has been carried into generate as injudiciously, and in a manner no opposed to chooming principles, as necessarily to produce failure; and, 3d, that it is cold, and not her air, which he employed (at least, in the trial made at the Liverpool and Manchoster Esilway), thus virtually departing from the principal combition of his patent. In your last Journal, however, I find Mr. Hall questioning the correctness of Mr. Kanraley's repart, and still contouding for the one-roomic value of his plan. Under onch circumstances it would be premature for me to interfere. Practically speaking, the point at lease is one of commanding interest, and none would be more happy to hall Mr. Hall's necessarillostration of the principle for which I have been contending, and which has so record the ire of the "operative engineers".—vin., the conditions under which the air should be introduced to the geneous perties of cost in our fernaces.

illustration of the principle for which I have been contending, and which has so roused the ire of the "operative engineers"—viz., the conditions under which the six should be introduced to the geneous portion of coal in our furnaces.

It being a matter of indifference, however, to the public, whether the plan or principle was finst introduced by Mr. Hall or myself, my objections to his proceedings must be of secondary importance, when compared with the more absorbing question of their failure or success, and whether they be practicable with due regard to economy? For the present, therefore, I shall remain a spectator, or until the point be decided, and the wordy was between Mr. Hall and the railway engineers be disposed of. It will, then, be a matter of some interest to examine, in a scientific point of view, the grounds of success or failure. If Mr. Hall succeed, I will venture to say it must be by a different arrangement from that adopted by him at the Liverpool and Maschester Railway, and a still nearer appreach to my patent—sacis near recross. From inspection of the engine altered by Mr. Hall at Liverpool, its failure might easily have been anticipated. On the first trial, as stated to me, it failed not only in preventing the generation of smoke, but in providing the necessary quantity of atcom. I am also informed, on good authority, that it was again tried under Mr. Hall's personal inspection, and again failed. Mr. Hall then promised to return and make another effect, in the hope of a more favourable issue. Not having done so, and after a considerable interval the engine was restored, as nearly as could be, to its former efficient state, by plugging up Mr. Hall's how (coid?) air orifices, and is again on the line doing its duty attisfacturily. Had Mr. Hall succeeded, or should be still account, is hall be among the first to haif it as a triumph of these chemical principles which have been of combustion, as regards our furnace, for which I have been contending—and for asserting which I have been even perso

MR. HALL'S SMOKE BURNING PATENT.

MR. HALL'S SMOKE HURNING PATENT.
TO THE ESTIMA OF THE MINING JOURNAL.

Sin,—Having seem Mr. Hall's advertisement in the Mining Journal of
the 10th inst.—if not too late for your next publication, may I request a
piace to say that the letter so inserted contains many misrepresentations,
and, I might use a much stronger term; I will, therefore (and also in the
way of advertisement), reply to it in your Journal of the 24th. I will
here only observe that, if Mr. Hall supposes that valgue personal almose
will, by any thinking man, he considered as a sufficient or satisfactory reply to my statement on a purely ectentific subject, he will find himself in
the end very much mistaken.

London, Sept. 15.

BOLANOS MINING ASSOCIATION.

Fig. — You downsie of the 16th of July gave some anticipations of the Bolanos adventure; —part of these appear by the advices recently received to have become fact. It was onto peter that shout this time the fands in the hands of the directors would be

Their balance then was

They have received per the Forth a British Tremesty tell for #1000

—at as, per distinct in. 1000

And the actions state that #2, not would be used by the conducts of the 23d of July (which here he experted to England by the next science, should the Withflood.) and on.

The anticipation then formed of the company's observe of profit for the quarter evolution then formed of the company's observe of profit for the quarter evolution then formed of the company's observe of profit for the quarter evolution the plane was The fact is

Should the company's share of profit continue through the year of the seeme rate, then 88,997 deliars multiplied by 4, and divided by 1.5,660 (the nember of share), gives 25 deliars contains the deliar at 4a, 54, per share. But suppose the produce to decline two fifths (which is not probable), still error where would be entitled to 56 per cent, per annum on the present price of 64.

to at this company was in data. The debt them conseiving was One year's profit has pold off this drift, and placed at the dispersal of the outs-pany, in the basels of the directors. 5,000 Being second to \$4, 10s, per share exect London, Sept. 12.

SUBMARINE EXPERIMENTS-DE, PAYERNE.

BUBMARINE EXPERIMENTS—DR. PAYERNE.

TO THE RESTOR OF THE BIRLED JOURNAL.

Birs.—Dr. Payerus has requested one to forward you for insertime a consumication, of which the following may be taken as a rough translation, in anower to one from a correspondent in has won's Journal. By a singular oversight I have only this moment perused your valuable remarks—Dr. Payerus (in consequence of his leaving for a short time for France) having never mentioned them to me, I suppose he has not noticed them; he leaves London very early to moverow morning. I trust, however, sufficient has been said to set the mediar quite right-out least, I hope on. Dr. Payerus will avail bismostly of the full time allowed before smoothly is allowed, and is therefore destrous, in the mans time, to keep his postess private. I will not fall in comply with your correspondent's wish, to make you to remark I he many thanks for your extended and valuable remarks.

Your very obscined servent,

23, Throudscoding about, Suppl. 14.

Watson Correspond

25, Threaducedia street, Sept. 14. WATSON CONLEGES.

To you normal or you acress of the not indeveloped the not indeveloped the difference which exists between the experiments of R. Fulton each those of Dr. Fayerne. It is, nevertheless, very grant. Falton incented a submarine boot, which could come the Releas. Notably considered the execution is between the reset in his submarine boot of the person had need of the submarine boot of the person had need of the submarine boot of the person had need of the submarine boot of the person had need of the submarine boots, he have all the glary of that it enthers—his invention torns upon a point which Falton news know. If it was atherented he would have brought in out, or clean he whole has process to some one who would have brought never passessed the mount of the submarine the horizontal fact transmitted his process to some one who would have brought never passessed the whole because which associated the horizontal of Dr. Payerne; the other mounts which he complique in he experiments are subgranteen for the father than the submarine the horizontal father and provided him, to remain he if with the associatery come during fractyre four bosons, and even double titul time if it was respectated. It was not than with Palton, who was obliqued from hore to have to mount to the numbers of the water to replicable the numbers of the water to replicable the numbers of the water to replicable the numbers of the water to represent the submarine boot. TO THE ROTTOR OF THE MINERO JOURNAL.

Continued in the Mining Internal from the Disapper Frantises Minhaele, for the Min Limite's Report on the Coal Evaluation of Scotlans Lincoll dista, in another of the Bightnel and Agricultural Ingirty of Evaluation for 155°.

STANDARD OF COPPER ORE.

STANDARD OF COPPER ORE.

TO THE SISTEM OF THE SISTEM FORMAL.

BIR,—The explanation of the term "standard," as applicable to copper own, contained in your last Number, as stated by Mr. Budge, estated his of being vary satisfactory to all who were not providually acquainted with the technical import of the word. I consider the communication of the explanation as an set of courtesy, in answer to an application which I made some months since through your valuable Journal; and, emboddened by my success in this tentenes, I now beg liberty to any that, if one of your qualified correspondents will have the kindones to enlarge the bounds of practical science, by stating the precise mode of dry seesy of supper over, as practiced by those who enemy between the miner and the smelter, he will confer a benefit upon, and be entitled to the thanks of macy, who, from these locations being far distant from the occase of mining or anothing operations, here not an opportunity of sequiring a linewledge of the actual numbulations—the composition of the proper flaxes—the degree of heat restend, here not an opportunity of sequing a knowledge of the actual munipulations—the composition of the proper flates—the degree of heat required—the mode of obtaining that heat, whether by means of an air-flurance or by the erucible-furnece with blast—and the process of refining the button obtained in the first process, are severally points of great interest, and of which a minute detail would be very valuable to the young metallurgist; and I cannot doubt your oblitty and desire to obtain from one or more of your scientific practical correspondents the information cought. The interests of science and its useful progress are greatly sided by the facility which your Journal affords for the interchange of such communications.

saking you for the kindness with which you have received and ac-Thanking you for the announce with water you will excuse owindged my previous applications, and requesting that you will excuse the first three given to you by a stronger, I remoin, Sec., the trouble thus given to you by a stranger, Chelfenham, Sept. 12 A SCHOCKINGS.

DURHAM COUNTY COAL COMPANY.

DURHAM COUNTY COAL COMPANY.

Wis, —Allow me to correct a double error which has crept into your leader of last Saturday respecting the Durham County Coal Company. There are not 10,000 shares, but considerably under 5000; and 40%, per share has been paid up, not 37%, as stated by you, and which has appeared by your list of prices for weeks past. I trust the report of Mr. Dune, and a statement of the financial affairs of the company for the past half-year, will yet be published for the buncht of the distant shareholders. I also frust you will not fall to apply the lash to those lovers of peace and instrust you will not fall to apply the lash to those lovers of peace and jus-tice (!), the directors of the Stockton and Darlington Hailway, for ille-gally withholding an enormous sum—between 10,0001. and 11,0001.—due to the Durham County Coal Company.

Dunnant. London, Rept. 13.

SUBMARINE EXPERIMENTS-R. FULTON AND DR. PAYERNE.

TO THE EDITION OF THE MINIMA SOURMAL.

Bin, -- Your correspondent " J. F. C., of New York," when commenting on the claim which Dr. Payerne makes to certain discoveries in aid of ing on the claim which Dr. Payerne makes to extrain decovering an automorphism proceedings, claims "priority in those entraordinary performances for his fellow countryman, Robert Fulton." I give no opinion as to the party who is entitled to the eradit of the discovery, or of its practical auniform to useful purposes, and I only notice them incidentally, as affination to useful purposes, and I only notice them incidentally, as af-ling me an opportunity of asking "I.V.C., of New York," whether hereby claims for America the homour of having given birth to Robert on I I he does, I, for one, will thank him to state his authority for claim. I halleve that Fulton was been in England, of English paitom ? If he do results, but that he emigrated to America in early life. Wherever he was been he is largely entitled to the credit of many of the seemingly recent discoveries in suchonical science—and this opportunity may be not unapply afforded for verifying the birth-place of a man who was so largely lambued with the power of genius.

A Suncarina.

MINE SETTS-No. V.

MINE RETTS—No. V.

TO THE RETURN OF THE MINISTER SCHEMAL.

The mute night is multiplied with eilent growth," and of that micerable momenthropy which reminds one of the dog in the manger! Surely, the risks attendant on mining appealation, where it is not the dog in the manger. saturable py which reminds one of the dog in the monge? Surely, the cisks attendant on mining apeculation—where it is generally hit or miss, a palsee or a prison—would be quite sufficient, without any difficulties being thrown in the way of obtaining grants, capecially such as lords refusing where there are bounds. By the laye, come orrangement between lards and bounders ought long since to have been made. Perhaps, one on why more mines are not discovered is, that men are not allowed

reason why more mines are not discovered is, that men are not allowed to sick pile in search of books of lodes, and the trainits, who discover such by accident, keeping their secrets for reasons obvious—metals and entoresh being excepted in their lenses, as well as the liberty to work for some, he,, without compensation:

But we are come to the consideration of the question—Whether any logislative prevision should be made to compel landowners (including the Duchy and boundars), or to empower Judges, Recorders, or Justices, to grass, in the absence of an agreement, or of a substating sett which is being effectively wrought?

" " We have laws enough Henren known; and, did not an imperious necessity, or, rather, the welfare of the state, demand semething of the kind we are about to propose, we would be the last to attempt to increase the number. "We want laws to develope national wealth, and give employment to the pounds," in now a general sentihast to extreme to increase the number. "We want have to develope not described wealth, and give employment to the people," in new a general sentiment. Industries men have a right to appear on the soil on which they are born; but, "shall the miner die?—a hundred thousand Cornish boys will have the reason why." Not by force of orms, but by force of brains. Mural might and mental power, Mr. Editor, are quite sufficient for our purpose, though, when machined is bearded, and reason to edited, "the flat of a nation is an etern as the summons of Death." We will keep physical force as a dernier researt, when the setts are granted by the We will keep our period Commissioner of Minos, or some other functionary—any, the Vice-Wardon -after a jury of twelve have frund that it will be for the benedi-

of the Commonwealth

But (to be serious), that come men and their posterities, transmitting that prejudices by ural traditions, would continue their metals and mine-cals in inchesed, and even uninchesed, grounds, unwrought till Doomeday. cals has becaused, and even unincesses, greater, anwronger to the rest the many anderly vaticizate. It would not, perhaps, he wise to heave the meating to justices, as executry "squires, "though they may be "all, all bossesses ble mes," with high notions of easte, breed "in and in," and "a follow-feeling "---you know the root. What think you of an application menting to justices, as country "espector, 'though they may be "all, all homourable men," with high notions of easts, beved "in and in," and "a follow-hading "---pon home the root. What think you of an application to a Judge in court (previously entherised by statute, the foundain of medium law), grounded on all-darks as to responsibility of parties, desire to work, sed probability of metals, minerals, they slate, lime, &c., &c., &c., being them therein, the weeking of which would handst the State. Trustees, Chiestery committees, &c., to be at liberty to grant cetts to, or works agreements with, enthers, &c. home to be reserved to hereb, and compensation to tensons. Having now worly filled my sheet, we will defer till my acut the analogical reast in which, on the ground of public utility, demand some layingstive one element to compet the greating of settle by those who, show Mr. Rohert Were Fun's really interesting appreciments, will, package, colous to great too prementarely, lost the ment generation who, since Mr. Robert Wore Pun's really interesting of sette by arkays, reduce to great too preasternly, but the ment generation he address metal, is an accommon of the electricity escaping from its (more foreing) through the many reat helps!

Postures, dup. 29.

Spanear or Anguartes Chair ron Straw Boars, -The report of on and Amboy Rails It is stated that in our of the house of the company, anthologica coul. Francis, whose new builders were build during the part year, upon a plan calculated for the boot application of road, the emergenties per day does out exaded two tons and a quarter, conting ton deliars, whilst serve reads med formerly by the some boot, of wood, cooling EI (II) delines, were consume the same resum-distance Journal (U, E_+)

Two Weats to you Langue Ba too .-- In the course of an interest ng through \$25 fast of sing and two that of refraerous sendstone rech. to within a short distance t of the surface is a few boxes. At gating, where the ensemble of the well is 140 feet above high-water mark, a beforess depth of the bore was 610 f. or, but it was electricated because name was fromt; at the and of the corotte the water right to within dy-six fluit of the auction, and it has no continued, at 514 feet above

HIMING IN AMERICA.

The rapid advances made in America during the past few years in the mineral districts, especially as regards the development of the coal-fields, and the manufacture of iron, claim more than a more possing comment. The production of iron, in 1849, amounted to 286,993 tone, in which 864 formaces were employed; of her-iron the production was 197,233 tone, in which 795 forges, &n., were employed—the communition of finel for both these branches being 1,528,110 tone, while the amount of capital invested was 29,432,131 dollars, and the mamber of hands camployed, including mining operators, 30,497. The production of lead amounted to 31,239,453 lbs., which employed 120 smelting-houses, 1017 seen, and an investment of 1,346,756 doilars. The production of gold was valued at 529,695 doilars, employing 157 smelting-houses, 1046 men, and an investment of 234,325 dollars; and the production of all other metals at 370,614 dollars, affording employment to 728 mes, with an invested capital of 238,980 dollars. From the coal mines the products were 863,489 tone anthracite, and 23,693,191 tone bitantinous—in the former of which there was invested 4,355,692 dollars, and in the latter 1,868,862 dollars. From the salt mines the produce was 6,179,174 bushels, in the raising of which 6,998,845 dollars were expended, and 2365 men employed. And the value produced from the grante, enable, and other stone works was which 6,998,045 dollars were expended, and 2365 mem employed. And the value produced from the granita, earble, and other stone works was 3,695,884 dollars, employing 7859 men, with an invested capital of 2,540,159 dollars.—We purpose, henceforth, making such extracts from works and official decuments which may come under our notice, as also giving insertion to original communications under this head as may bear on the subject, and, on the present occasion, avail surselves of the pages of the Assertem Journal of Science and Arts, which fully supports the high character it has so long maintained as a valuable work devoted to science, under the able supervision of Professor Sillienan, and who is now assisted by his son. Benjamin Sillienan, ive., of Yele College. by his son, Benjamin Silliman, jun., of Yale College.

GEOLOGICAL AND STATISTICAL NOTICE OF THE COAL MINES IN THE VICINITY OF RICHMOND, VA.

IN THE VICINITY OF RICHMOND, Va.

[President of the Mid Lothian Mining Company.]

[President of the Mid Lothian Mining Company.]

The coal-field of this vicinity lies about thirteen miles west of Richmond; is known to extend from about fifteen miles north of Jennes River, south, beyond the Apposantox River—is said to be some fifty miles in length, and is breadth about tweive miles; its bearing is some thirteen degrees west of south—it lies upon granite, and is supposed to be in the form of an ellipse; it outcrops to the east and west. The coal lies in six counties—Haprico, Hanaver, Goochland, Chesierfield, Powhatan, and Aneila. The mines in Chesterfield county, near the Buckingham-road, leading from Richmond to Lynchburg, may be said, so far as the north and south points are regarded, to eccupy the centre of the field on the eastern outcrop; and it is in this vicinity that the coal appears in its greatest thickness and parity; it varies from fifty feet to come four er five feet in thickness. A full and accurate account of the field and the quality of the coals is anticipated from the report of Professor Rogers, to be made to the sext tegislature of Virginia. It may be well, perhape, to remark, that all the explorations and workings in this coal-field have been

coal appears in its greatest thickness." A full and accurate account of the field and the quality of the coals is anticipated from the report of Profusor Rogers, to see made to the next legislature of Virgials. It may be well, perhaps to remark, that all the applerations and workings in this coal-field have been coasioed chiefly to the enterop, or sides, of the basin, and that there is nothing yet developed indicating, with any degree of cartainty, how thick or deep the coal will be found inshedded in the centre of the field; but it is believed that enough has been accretioned to show that so thick, varied, and valuable a deposit of hitmeleast coal, in the same space, is not to be found anywhere else. The first unies discovered in this vicinity were the Old Blackheath Pits, Back and Cunliffe's, Rose and Curry's, Wooldridge's, Railey's, and the Green Hole, and so James River, in Chesterfield county, also Trabue's and Solice's pits. These have all been discontinued or worked out; they produced coal of excellent quality for emitting purposes, particularly the Old Blackheath Milnes. The mines now in operation are the Maidenhead Pits, known as the mines of the Blackheath Company of Colliers, discovered in 1021. There are at these mines acversi shafts, varying from 150 to 700 feet deep; during the year before the last, Colonel Heth, originally a large shareholder, purchased these mines of this incorporated company, with all their real estate and other property; he bought also Saller's pits, with a large affoliant grace of the Regulation of the Regulation of the property. But have a grant of the work of the property and the agent of the Regulation of the property and the agent of the Regulation of the property. In the same agents earl out to examine and report as to the value of this there are not company, and with that object west ent to England. While there, on explosions from inflammable gas noncered in his mines, and deatroyed Rity-three out of fifty-rist persons who were in the pits. I have been property in the s

sion of gas we otherwise is uncertain."

Inumediately adjoining these siless on the north are those called the Gow-to-prin, needs by Merchie, Minoriy, and Brander, and new worked under a leave by George St. House. There are two shafts on this property, one about it it feet door, the other about 660; about 51,000 bushels of coal, will be heisted from these minors the present year. The coal is about 51 feet thick; it is relied for greate and fire eleam-neglece. The procest promped is not presently gray; the shaft is necessaryly have force and to a them in a great body of coal is supposed to be eather the present works. There are copyed of coal is supposed to be eather the present works. There are copyed of coal is supposed to be eather the coal of these unions forty men, including top and bottom hands, and exchange, and they are about the cases detained from the worked the exacting year.

Next on the north-head are the old pile of Black and Candidy, mentioned before an having been worked out; and on the worth-east of their are the old Blackhanth Mitner, is like readition. About two miles court her Saller's piles, anamed before as being as averagely, and containing iron ore lying over the coal, and now owned by the Kinglish company. In which company Colones Hother coal property; on the worth is Traine's add note or is read to be more than the coal property; on the worth is Traine's add note a branch of the isomer work, and the, on the hard by Thomas Mr. Burdeck, and nother a branch to be senated. Denne, and the, the coal bring raised from beats the entirely, is not every notice, and nother a branch of the isomer work, and the, can be an him per and heing raised from beats the entirely, is not very notice, and not the coal for any him per the coal file is shaking. On the sandhead gray the coaphingwords by a basic feet deep. There will be calculated from these minor design to have no the property of the file of the sandhead gray for emphysique and to also a solid to be a small calculation of the process of the proce

* It is probable that this tool first extends through Virginia into North Carolina I they all the publishes who incredited to be can't if home increditing the short is a select of there was the factors as to the banket to the fact bragain of the man remaining on packing at the publishes to the fact bragain of the man remaining on packing at the publishes at the publishes at the publishes are the provided by the fact of the publishes and the publishes are the published to the publishes and the publishes are the publishes and the publishes and the publishes are the publishes are the publishes and the publishes are the publishes a

i What reflect count can be assigned." It is baculy possible that any binomen at-mays result back produced much an offers, with a

on the run of the coal, extending a mile or more.

In the astume of 1030 coal was found in one shaft at the depth of 723 feet to the coal, at which time the other three were temporarily suspended, one being 625 feet deep, one 300, and the other at feet. These shafts are eleven feet square, divided into four chambers by timbers, and, from the samples of matals seat, you will see that sandatone and slate, in alternate layers, form the covering over the coal. The last shaft was recommenced at the beginning of the present year, and is now down 350 feet, and it is expected coal will be reached by the 1st of next June, at the depth of 600 feet. The last year about 300,000 bashels of coal were boisted; the present year about 600,000 bushels will be raised, and the quantity would have been calarged had the demand justified the increase. Coal in the working shaft was found, as before stated, at the depth of 732½ feet from the surface—the coal in the shaft was thirty six feet thick, and the sish below the coal is 15½ feet deep—making the whole depth of the shaft, 775 feet. I write now from memory, and may not be critically correct as to a foot. In the journal seat you of the metals, the specimens and list commence about 340 feet below the surface. The upper metals in the samples kept, got mixed or deranged, and were thrown away. Any discrepancy (if any) in the journal of metals as kept with the depth of the shaft, as here given, must have been produced by the difficulty of merauring the thickness of the metals on the side of the shaft in sinking. The coal line at an angle of about 35°, dipping to the west. The thickness of the commerce, which is, is presume, produced by the form of the rock upon which it is deposited being uneven; in some places the coal rises to fully fifty feet in thickness. The whole capital was expended in sinking. As above discretingeribad. these as an angle of about 35°, dispoing to the west. The thickness of the coal varies, which is, I presume, produced by the form of the rack upon which it is deposited being uneven; in some places the coal rises to fally fifty fact in thickness. The whole capital was expended in cinking, as above-described, in procuring a large steam engine, buildings, makes, and mule, power machines, railroads above and underground, besides some eighteen labourers, and a coal yard and fixtures. The whole of the lands are suppleded to contain coal. The exploring drifts now in progress extend north and south over a quarter of a mile; the coal on the west being the dip, and on the east being the rise, seems to indicate great regularity—a drift now going on the the seathwest on a slope abows that the coal is flattening off, it not dispring now more than one in ten feet, and in quality is of the most promising character. It will be seen by observing the location of these mines, as stated before, that the lands take in the coal from the castern outcop, on the south, so as in reach over on the dip fully a mile, far beyond any explorations wentured. The present works and fixtures are capable of producing 1,000,000 bashels per nanum, and by the aid of a second engine over the same wathward. The present works and fixtures are capable of producing 1,000,000 bashels per nanum, and by the aid of a second engine over the same shaft, another million might be produced. The next year, when the draining shaft, shall have reached coal, 2,000,000 per annum can be raised, and that quantity doubled by instrusing the steam-power. Two large steam-cagines are now building, and intended to be exected before the close of the senson; one over the sink-ing shaft, and the other in the mines to operate on the incline.

[Two legents of the coal incline]

QUARRYING STONES.

QUARRYING STONES.

Another remarkable example of the contributions of science to the acts of life is derived from the properties of heat, as applied in the Kaat to quarrying blocks of stone, when the object to to examente huge blocks from the surrounding mass. A groove is cut some two inches in depth in the required direction; this dome, the groove is filled with fact, which is kept lighted until the rock is highly heated. The rock them is, of course, appanded by the notion of the beat; the final is then swept away, and cold water immediately powered into the groove. The solden contractions causes the black instantly to split off. The same principle is daily caldibited so our tables. If a heated glass be subdealy filled with cold water, it immediately breaks is pieces. In this way blocks eighty fred long and six thick are easily takes off with an other labour than that of chicefling out the groove. A similar example of the application of science for the commany of power is exhibited in France in the quarrying of millotones. They are required, as you are well awave, to be circular and the since from which they are made is exceedingly based. The motion and the since from which they are made is exceedingly based. The motion of quarrying them is this —A very high circular column of stone is wrought out of the requisite diameter. It alice of partisine of this, such as are required by the remanded and which are driven dry weeden either as are required by the common stone naw, would be a work of immense laboure. A quite different agent is employed. At regular vacquessive distances growers are on account the column, into which are driven dry weeden weight avening. The dow which falls during the night being observed by the wood, couses it to expend with a power as irresistible, that all the circues or the falled States.

SOLUBILITY OF SALTS IN PRANIPRATE OF MERCURY," ender finds that the chloride, bromids, indide, cyanide, and sulpho-cyanide of alleer are soluble in persitrate of moreory, and that the ferrocyanide, sulpharet, and seleminest of silver are insoluble in the mercurial will. These solutions are of a poculiar and outcomeson nature. For example, neither mitric sold nor nitrate of silver precipitates anything from the solution of eyanide of silver in perultrate of surrecury; but a sufficient quantity of hydrocyunic or hydrochloric acid, or metallic chlorides, pencipitate from it sysmile or chloride of silver. On the contrary, hydrochloric soid, shloride of sodiam or hydrochlorate of summis, readily precipitate chlochloride of sodium or hydrochlorate of ammona, reneary preventate of silver from this solution; as sevens of nitrate of silver also precipitates this salt completely, which nitrie solid does not precipitate. The chloride, bromide, and indials of menury also dissolve readily in permisers chloride, bromide of menury can be separated from those solutions. Chloride of meetary can be reported from these by a grea terross only of chloride of sodians.

CREMICAL EXPERIMENTS.—Dr. Ryan, the lectorer of the Polys

Institution, met with an arcident of his residence, in Indiagons, on Friday word, while preparing some explicaive minteres intended to Mastrate his reening became, but we are glad to find the injuries he received were not of no nerious a nature as to detain him from his usual attendance at the notification. We connect too highly complianent the measurers for probi-iting despresses experiments within their establishment, as the late and disaster et Apotheracies. Hall standil prove sufficient warning to pres any similar recurrence, more aspecially where the disaster would prove any similar recurrence, more especially where the disaster would serve as detrimental as in the valuable and interesting retablishment of the Royal Pairtneke in Lastitution.

These mines were not abandoned until the close of the last year, having been for the fact half dozen years worked by Mffle, Reid, and Co. East of these mines are the cild Union pits, and before named, but worked out, not having been wrought more than some fifteen years after being discovered. South of these are the exhausted mines owned by Nicholas Mfle, and known as Mills Creek pits, which, like the Union pits, did not hast working more than twelve or effects pears after being discovered. South of these are the old Green Hole pits, before named as one of the addrest pits, and exhausted by working. The soal raised from all these old mines use of very good quality. Next and immediately couth, he the Creek Company's mines, discovered about four years ago. They were valued and sold to an locarporated company at \$96,000. They have but one shaft in operation, shout 350 foot deep, worked by a steam-angine on the ground, and mule power operating below on an incline. The present year's product will be, as it has been for the two preceding years, about 250,000 to 300,000 bushels of coal, and there are employed here about oversty men at top and bottom. The coal is of good quality, but is difficult to mine in consequence of the field being somewhat troubled. This exampany own all the necessary machinery, mules, and about thirty men, with a sufficient cottic of houses, two coking overse, and about thirty men, with a sufficient cottic of houses, two coking overse, and a beanch railroad connecting their mines with the main coal railroad to Manchaster. On the south of these works, and immediately adjoining, are the Stansbengs pits, now unwrought, owned by the heirs of Martin Railay, deceased. To tody feet; it is supposed will be unit, and extensive continuous may in future be carried on. The coal from these pits ignites easily and burns freely, being very suitable for grates, locomotives, fact being the protection of the mass of these coals; the first from twelve to sixten feet in this known.

The Mill Lothian Coal Mining Com

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Ross

Product of May.—2030-046. 4 gev. = 75 lbs. 2 oz. 10 dvts. 5 gev.

Product for May.—2030-046. 4 gev. = 75 lbs. 2 oz. 10 dvts. 5 gev.

Mineral del Meste, July 11.—With regard to mining matters there is not such new to commanisate, but not two or three poilstow which see somewhalk in provide prospects. First, I would notice the discovery of over in the 157 were super level, dving eath on the Taynon. We have yet or commenced to shah a special control of the Taynon. We have yet or commenced to shah a special control of the Taynon. We have yet or commenced to shah a special control of the third of the Royal and tooks

PRINCES STATES.

***STATES WITCHES WITCHES AND TO COMMERCIAL GAZETTE**

***FORT STATES AND TO COMMERCIAL G

hern workle.g.—Herwick Worder.

MINE ACCIDENTS.

Mostlyn Mines—(Freez a Correspondent).—On Tuesday last, a young man, named Thomas Brookes, while descending the tables to get to his work, till down the shall, and was hilled on the spot. He was found with his log ontwined around the white rope, from which it appears that he had left the indiders to run down by the rupe, and the rope being wet, was not able to mote the had held; this appears to have been a custom with the young men which the ngoets were not precest, and we hope this melanchedy result will be a sufficient waveing to induce others to absorbe on, a dangerous practice...—J. W. Helmherth Mine.—On Friday week, at Helmherth Mine, he had not capled on vous as the men expected, J. Millest went to acceptain the cance, when the explosion took place, and part of the ruph crock bim to the head on avecacy that he died on the full curving day.

Gogines, near Abergetuy th...—Jobs Letcher was caffected a sheet time rince, by venturing iron a mine in this neighbourhood too mous after on explosion of gunpowder.

Duesing Iron Hardz.—W. Parry was chanding two near the poils of the incline, which conveys could from Combinerqued to the paid of the works, on Tureday week, and leaking at the lended corringes consisted when the empty ones going up circus him on this book in the incide, when the weeks precaded or the interest of the works, on Bradwell.—On the 2d inst., while George Malithy was at work in a weige all Bradwell.—On the 2d inst., while George Malithy was at work in a wine more substituted ours corious layeres that he died to a few inners afterwards.

Butter Accident at Patriceout Cultury.—About cight of stones, but he connections a pipe, at the top of one of the bolier at Masses, John Lotricales and Co." Cultury, at Patricavell, bord, and, the heids being small, the connection of an one on acaded. The tenness of the mine full in upon him, and in fitted ours corious layeres that he died in a few landers, and helder and the region of the provise of the provise o

CURRENT PRICES OF STOCKS AND SHARES

The operations on the Rock Exchange for the part week offer but little opportunity for remark, the prices having been steady, with little business dering—indeed, there being only one transaction of any magnitude, which emission a distance of the moment, Chancels for Announce baving been alteractively. We begin and collect, Consols for Movey here ranged between 225, buyers, and 35, the closion price busing 125 f. In New 24 per Conto, the price has been alteractedly 18 buyers and collect, Consols for Movey here ranged between 225, buyers, and 35, the closion price busing 125 f. In New 24 per Conto, the price has been 101 f. Invarign off 161 5. Inc. and 150 per 150

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end., 69 91
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ALUVA BAURA	to real or was a real or
Common Money, 975,	Butch, 2s per
Bisto Account, 50 \$	Bitto, 5 per
New his per Conta., 1-1 is	Portaguese, 5
Sudaced a per Conta., Short	Ditto, 3 per
Reduced 24 per Cents., Shot	Russian, a per
Long Annullies, Shot	spanish, Activ
Sank Stock, Shot	litto, a per t
s actorquer Bills, 51 S pen.	Chill, a per Cer
Beigion Bondo, 5 per Cent., 102 S	Colombian, 6 p
Bengil, 5 per Cent., 524 S	Mexican, 5 per
Danish, 5 per Cent., 531 4)	Peru, 15 id

MANE OF ENGLAND-Quarterly Average of the Workly Liabilities and Acceta,

see the total of June to the 1sts of Septe	most, 1945, both merses,
ALABILITIES.	Assett.
Circulation	Securities 473,159,668
Deposits 9,033,000	Bullion 9,177,000
Patternamen	Married on column
#19,542,000	£21,236,000

The premions on gold at Poels in per mills, which, at the English Mint price of M. 17a, feigl, per causes for clanderid gold, gives an exchange of 28 sh, and the exchange at Paris on London at short being 28 27, it fullows that gold in wise per cent. describe in London than in Paris of gold is 421, it fullows that gold in wise per cent. describe than into the English Mint price of at, 17a, 1914, per center for clandard gold, gives an exchange of 12-7a, and the exchange at Hamburgh on London at short being 12-101, it fullows that gold in 42 per cent. describe in London in 102 per cent., and the part of a schange between England and America being low 25-40 per cent., if fullows that the exchange in 2-5 per cent. against England. But the quoted exchange in 1-2 per cent. against England. But the quoted exchange in 1-2 per cent. against England.

1.ATEST PRICES OF INISSE STOCKS.—— per Cent. Comonis, 91£ 2; 5; Stocks, 82£; 60tts New., 1826, 100; 14 per Cent. Dehenteres, 92£; 8ack Stock, 1774.
—— Risgotewn Radiway, 606.; Dublin and Drogheda, 16.—— Risgotewn Radiway, 606.; Dublin and Drogheda, 16.— Ribernian Stock, 2-1... Reyal Bank, 844.; Pervisorial Bank, 84...—Chy of Irabin Stock Company, 1674.; diffic Stock, 1886, 188, 14... Recam Ship Statistics Company, 844., Edition and Irish Sitts, 342.—National Governor.
Georgian, 1846.; Wicklow Copper Misco, 1946.

I feeling. The washar. Deving the whole of the past week the state of the charc market has been a secessingly insensimate, and, with the exception of Bristel and Larden, which have been a secessingly insensimate, and, with the exception of Bristel and Larden, which have been successingly insensimate, and, with the exception of Bristel and Larden, which have been success it but the York and North Middland, which have been side at 100, per chare. The North Middland, thull and Brity, the Middland, but have been side at 100, per chare. The North Middland, thull and Brity, the Middland and Rother-ham, Greek front to England, Bellukseya and Changene, and Northern and Enderry, so all lower, so if will be seen by our quotations; white Manchester and Leeds, pool Leeds and Builty, have monitorized their pretro.—Morth Middland Midway, 351., 1 out and North Midway, 351., 1 out and Leeds and Leeds, 100., 1 first the Annual Midway, 351., 1 out and Midway, 351., 1 out the North Midway, 351., 1 out t

HULL. The sense . The market is improving, and all good stocks are of ready the ... Birmingham had Durby, Spi.; Eastern Counties, Sti.; Edinburgh and language diff.; Grand Jumition, 1926.; Hall and Selvy, Mr.; Edinburgh and language with the continuous parts. It will be selve the structure of the continuous self. It will be selved the self-selve and Mineschester, 1756.; andem and Birmingham, 1926.; Lembon and Brighton, 5326.; London and Stockholm, 1926.; Manchester and Londo, 746.; bindend Compolers, Spi. to 616., Reveneting and Carlinio, 87. to 876., North Midland, 1846.—Virth Midland, 1946.—Virth Midland, 194

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SDINBURGH, Yave on av. -- Edinburgh and Changew Railway, 4th., Dallwith and Edinburgh, Shi., Ginagew and Greeneck, 1/41., Ghangew and Garwaith, Ali., Hangew and Cofrone., 371., Dander and Alveranth, Ma., Arbenth and Ferder, Sid. -- Band of Sentiates, 1821. Bryan Bank, 1821. British, Ali., 1821. British Library, 1821. Statement, 1821. St

GLAMIOW, Yavoan r.— Sack of Dections, 1546.; Repai Dank, 1516.; Bellish Lines Company, 3664.; Commercial, Lid.—North British Fire and Life Incornace, 126. Bellishness Hallway, 866.; Burnier and Arbroadh, 126. to 126.; Editologia and Changew, 566.; Changew and Greeneet, 171.; Glackway Life, Garager, Palitry, Rimarnock, and Arr., 546.; Montion on Kirkintillock, 546.; Stomanne, 56.; Whoke and Colleges, and Exchange, 436.—Clad Ctyle Bhipping Company, 566.—Shoot's Iron Company, 36.

back, 196.

MANUTESTER, Youanay. — Dirmingham and Duchy Bailway, 274., Birmingham and Bucky (Birmingham, Style, Manutester, Birmingham, Style, Manutester, Birlin, Sand Budy, 184., Manutester, Style, Manutester, Birlin, Sand Budy, 184., Manutester and Lender, 741. Middlend Constitut, 619., North Middled (Lender of Budy, 184., 184.) And North Middled, 94.—Birds of Ston-bedder, 741., Sand-bader and Liverpoint Budylet, 194., 194. Sand-bader and Liverpoint Budylet, 194., 194. Sand-bader and Liverpoint Budylet, 194., 194. Sand-bader and Liverpoint Budylet, 194., Middled, 94.—Birds of Ston-bedder, 741., 194. Sand-bader and Liverpoint Budyleter, 194. Middled of Stone Control Manutester, 741. Middled of Middled of Manutester, 741. Middled of Middl

BIRMINGMAM, Towerchay - London and Directopher Railway (1994, by 1812, redom and Brigation, Afri to tell., London and Sounds Versions, Adv by 1812, Towardson, Adv to 1811, Brigation of Directophers and Associated to the State of State of State of the State of State

SALE OF COPPER CRES IN CORNWALL

Copper come for mise on Thornous next, september 19.

Copper come for mise on Thornous next, at Pearce's Hotel, Truro.—Mises and Parcels.—Treasvens, 919; South Caradon, 579; Politice, 691; Wheat Jewel, 599; Tretherlan, 316; Fower Consols, 202; Par Chossis, 202; Fishinbash, 202; Crap Tretherlan, 316; West Consols, 202; Fishinbash, 202; Crap Restr., 173; West Mainten, 4; Wheat Harmony, 17; Wheat Bassed, 46; Eicharde's Cra, 13; Wheat Bissy, 10.—Tutal, 472 tons.

13) Wheth mary, 10.—Tutal, 6.22 toms. Copper over for sale on Thursday week, of France's Hetel, Truro.—Mines and Parents.—Consons, 104; United Mines, 619; Hallenbeugle, 207; Trosavene, 224; Fowey Consols, 205; Wheel Ellen, 109; Tryleigh Concols, 174; Trevaren, 154; Wheal Messer, J.; Wheel Vyysan, 67; Francis's Ore, 69; Greet Wheal Fortune, 23; Wheal Clifford, 15; Wheal Comfort, 15.—Total, 21:48 tons.

SALE OF COPPER ORES AT SWANSEA.

Copper ores for sale September 21.—Colve 105, ditto 57, ditto 80, ditto 80, ditto 40, ditto 81, ditto 81, ditto 81, ditto 81, ditto 81, ditto 81, ditto 82, ditto 82, ditto 82, ditto 84, ditto 82, ditto 84, ditto 82, ditto 84, ditto 85, ditto 87, ditto 86, ditto 87, ditto 86, ditto 88, ditto 87, ditto 88, ditto 88,

SALE OF BLACK TIN,

By Ticket, on the 13th of September, at Pensance.

Mines. 1	l'ons.	Price.	An	areal.	Purchasers.
Ballerwidden					
					Williams and Co.
4000					L. C. SW. Banker
ditto					. Williams and Co.
ditte	44	28 0	L 135		Bolithes and Co.

LATEST CURRENT PRICES OF METALS.

[From the Merning Chronicle of this day.]

[From the Merwing Chronicle of this day.]

Quichaliver, of course, holds the price, du., but the stock is rather heavy.—Spoiter
remains neglected at 27L, shipments of old purchases only.—Copper is without
change. A parcel of Booth American arrived at Liverpuol, is offered at sid, but the
highest offer reported has here 76L, only. British iron—the late speculation is producing its effect, the grinelpal ironmasters who took the orders having proceeded
to hieve in freels furnoses for the supply of the usual demands for shipping and consumption. Swedish iron—about 13t tens, of a rather ordinary specification, have
been solid of it. i.e.—good assortments hold from at 11L, its. Russian iron in but
little request. Swedish steel is generally held at 17L isa, but some parcels may be
bought at 12L ive. Lead exceedingly flat, in East India the a sensil parcel has been
solid at 85s. The new American stafff does not promise any improvement of the
demands in that quarter—however much samuging may remedy the high duties
for other articles, there can be little prospect of that our for metals.

[From the Middend Cumstice Hereld of Thursday.]
In the metals for metals more histone have taken place. The recent advance in

to the market for metals more business have place. The recent advance in the price of iron is firmly maintained by the Welsh houses, and East India tin has been sold at an advance of in, per cut. A perfect, though still in large supply, is not hover; and English lead in selling at rather advancing rates. The market is well supplied with quickiniver, and the price is now do, per ib.

COAL MARKET, LONDON.

GOAL MARKET, LONDON.

MONDAY.—Prices of coals per box et the cione of the market:—Redside's Wes Hartley 15—Hofywerl Main I f 6—Nolson's West Hartley 16—New Tandeld 13 2—Use's Redheugh 15 6—Townsley 16—West Hartley 16—New Tandeld 13 2—Use's Redheugh 15 6—Townsley 16—West Hartley 16—West Wylam 15 6—Walk's Red Baranard's 17—Clerk and Co., 15 6—Kim Free 12—Geothert, a 5—Hilds 17 9—Notetion 18 3—Harvet 19 19—Enth 17 9—Redside's 16—Braddy No Hotton 20—East Hetton 15—Larvet 19 19—Cassop 19 9—Cassims 29—Heugh Haff'(9 5—Adviside 17 3—Bowmann 16 6—Hisper 17 6—Redside's Note 18—Bowmann 16 6—Hisper 17 6—Redside's West Hartley 15—Car's Trees 19 19—West Trees 17—Bhigh seried slowe last market, 72.

WEIDNESDAY—Braddin's West Hartley 15—Car's Hartley 15 6—Hartley 15—East Hetton 16 5—Hetton 16 6—Noteson's West Hartley 15—New Tended 13 6—Vall's Red Killing worth 16—Korthambertanal 17 6—Benacet 19 19—Resdy 18 Hetton 16 5—Hetton 16 6—Noteson's West Hartley 15—Drewherton 16 6—Northambertanal 17 6—Benacet 16 9—Redside's 18 19 9—Morrison 17 9—Februard 19 19 9—Advison's West Hetton 18 9—Advisole 19 6—Redside 19 6—Redside 19 6—Redside 19 6—Redside 18 6—Redside 19 6—Redside 18 6—Red

mannen 12 6.—Ships ordived, 173.

FRIDAY, — Admir's Minn 15 6.—Boddin's West Hartley 15.—Masting's Hartley 15.—
New Tandeld 11 6.—Chi Tandeld 13 6.—Sidney's Hartley 12.—Taylor's Hartley 15.—
West Wylam 13.—Wylam 15 6.—Wall's End Acres Chose 17 6.—Eronen's 16 6.—Chensell 16 6.—Ein Perk 17 6.—Chotscheth 19 9.—Heldrey 16.—Ellingworth 18.—Freihns 17.

Braddyll's Hetton 19 9.—Harwell 19 9.—Betton 12 ft to 19 9.—Landelse 19 9.—Mocrison 17 9.—Penheutin 18 6.—Enzylon 19 9.—Betton 17 6.—Chronoc 19 9.—Mocrison 17 6.—Chronoc 18 6.—Enzylon 17 6.—Ships and 19 6.—Erone 18 6.—Chronoc 18 6.—Chronoc 19 6.—West Ferban 18 6.—Chronoc 18 6.—Chro

MONTHLY IMPORTATION OF COAL, CULM, AND CINDERS

Quantity, Youn, V. E. Lambinos 1991. Quantity, Team Printers Marin (1992) Cart & Cu.'s Hartbey often Gray Drawfely 1991. Hest 1997. Notherton & Cu.'s Hartbey often Drawfely 1991. Hest 1997. Notherton & Cu. 's Hartbey often Drawfely 1991. Hest 1997. Notherton & Cu. 's Gray Drawfely 1991. Hest 1997. Notherton & Cu. 's Gray Drawfely 1991. Hest 1997. Not there were warden's Hourt. Not Compared and Cu. 's Gray Drawfely 1991. Hest 1997. Not Gray Bankon (1991) Annual Marin (1991) Annual M	NEWCASTLE.	Quality.	Tons.	BLYTH.	
Note A Co. * Hartbey Stewart's broth. Links Bartley St. R. Litting worth Co. * Hartbey St. R. Litting worth Co. * Hartbey Co. *	Quality Tone, v	W.E. Lambton	17612	Quality. 1	come.
Deadly 1's Reflection Main Main R. Killing worth 2015 East well 1917 Notherton Main Main R. Killing worth 2015 East well 1916 Notherton Main Main Main East East East well 1916 Notherton Main	Pathon Main				419
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S. Banderi's 2.1-of Carador Gred Stome 111 S. Brown w's Light Sellow 4-km Sandrice 300 Stone Yelmanner 1944 East Hatton 60-cc Stoney's Radio 4-km Sandrice 300 Stoney's Radio 4-km Sandrice 300 Stoney's Radio 4-km Sandrice 300 Stoney's Radio 500 Stoney's Radio 500 Stoney's Stoney's Radio 500 Stoney's Stoney's Radio 500 Stoney's Stoney's Radio 500 Stoney Stoney's Radio 500 Stoney Stoney Stoney 500 Stone	Tyless and the second artists	WASHING WASHING			
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									Service.			1000	

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THE LONDON GARETTE-BANKRUPTS.

PVESDAY. I. A forestern, Longwind, Berkinghamshim, over and califfe deals F. Beshikanom, late of the Drope read, Survey, Jamescraper—F. Gaseth, Deals Species & or love & Sagnissed pairs on the Scherburget read, Babber severables, Braid loom, Dropingham, Islandsuper - M. Tonovan, Norgonet, Magnessathshire, in-senger - J. Brocks, Liverapean, South Vergor C. Johnson, Statistice, Statist

FSSSAY - C. Chin. Managhos, inchanger - 3. O. brecher, Binninghan, should - B. Chin. Statististics, makinger - 5. Thomas, Yurk, tatististics - G. sanday, Montes that here d. sanday, Montes that here, Such inglandaries, but managhataner - G. Donabour of Larrester, Machin, Linguige and S. Larrester, Machin, Linguige and S. Sanday, C. China and C. Larrester, C. China, Machine, Machine, Managhot, aster - G. China, Machine, Machine, Managhot, aster - G. China, Machine, Machine, Managhot, aster - G. China, Machine, M

BRITISH MINES.	BRITISH MINES-continued.
Blures. Company. Paid. Price	Shares. Company. Paid. Price
500 Anglescy 5	6,505 TamarConsols 3 22
4,000 Bedford	6,000 Tin Croft 7 .5 4
4,800 Bisson Bridge 5 4	5,000 Tretoù Comocin 1
100 Botslinck 175 300	179 Treviskey and Berrier 130
M,000 British Iron 70 . 61dis	26 Tresavens 1400
8,000 Blacksvon 50 116	120 Trethellan 210
120 Brewer 100	4,000 United Hills \$ 64
79 Badnick 50	6,000 Wicklow Copper & . Is
1,000 Carn Mrss	3,645 West Wheal Jewel 10 64 4
5,000 Con.Tretoil MiningAss. 4	120 West Trethellan 73
2,000 Cornebian Lead Co 2 2	50 Wheel Vor
5,900 Cornwall Great United 104 1	POREIGN MINES.
5/2 Cook's Kitches 50	The comment of the co
112 Charlestows 410	5,000 Alten Mining Company 134 B
126 Crogg Braws 40 .306	10,000 Anglo Mexican Co 100 2
9,000 DurhamCountyCoulCo. 27 9	3,374 Do. Subscription 25 28 A
2,400 Dancscombo	2,000 Bolanos
6,600 De Dunstanville	Ditto Scrip 15 16
200 Diamond 8g 10	10,000 Brazilian Imperial 21 . 8
120 East Pool 356	10,000 Bolivar 20 2
128 Garrigan22 4	10,000 Ditto-Scrip 10 . 2
160 Great Councils 97 736	10,000 Cata Branca Beagilian 64
0,000 Hiberman	10,000 Conceices / Co. 4
2,000 Isic of Sark (Guernory) 11 s	12.000 Colombian Co. regio 55 2
80 Levant	10,000 Copiapo Mining Co 134 . Fg
0,000 Mining Co. of Ireland 7 134	10,000 Coperal Mining Assn. 20
128 Mostyn Mines 100	5,351 Mexican Company 189. 1
3,600 Poliserou Cresseis 10 . 4	12,000 Mocashas and Cocaca 25 44
A,000 Redmoor Cossolidated A 15	C Real del Monte poeta CEA
0,400 Rhymney tron 50 2	14,502 { Real del Monte, regis. 434 la Do. unregistered ?
100 Resewall Blitt 180 160	Ditto Loan Notes 130 40
990 Houth Towas 10 1	7,000 Royal Santiago 10 31
64 SouthWheal Basset 430	11,000 St. John d'el Roy 15 24
37 Speam Moor 70 Luo	20,000 United Mexican 40 14 &
4,000 Tregolian 44 #	Black Scrip, addi cupital 5 12
4,000 Treleigh Copsols 8 14	Red New Scrip 24 3
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BATTERAY SHARR TION A	ND SEASON DESIGNA

RAILWAY SHARE LIST AND TRAFFIC RETURNS.

RAILWAY SHARE LIST AND TRAFFIC RETURNS.

The transactions in Railway shares have been very sumerous, and the fluctuations considerable, during the past week—in many instances a serious decline haying taken place. In the early part of the week Eastern Counties shares were in slight demand, the prices having been #i] **j, which was the last price quoted, a little bundeness was since done in the new shares, as also in the declarative. Great westerns had been done a rid, and after having declined to #i] left off at #i], with a slopesition to advance, is the new \$0.1 shares a good amount of business was done, at prices verying from \$6\frac{1}{2}\$ and \$2.6\$—the closing price bring \$2\frac{1}{2}\$. London and Brightons have stood \$1.4\$; some business has been transacted, but the only variation quoted is \$3 and \$2.4\$. The creddence of speculators in the Blackwall Railway has not yet been recovered, the last price being 7. The demand for London and slouth. Westerns has been far from brisk, and lower prices have been submitted, the last price quoted being \$2.5\$, although the shares in the course of the week were done at \$0. A statement of the receipts of the Railmburgh and Glangow Railway has been published, ranging over a space of nearly three months, and shows a decided and progressive improvement in the revenue of the company, the receipts from the \$20 th of June to the letter of the fine the company is the receipts of pur cent, (the amount of the institution of the receipts of the sharev—the last price quoties of the tonesses, the receipts of the receipts of the sharev—the last price quoted was \$4.0 Other shares greating the prices—the results of which we give below.

Entire Now Present as Ful. on Val.o. Last week's

Line,	Entire Leth.	Now Open.	Present ac-		Yal.of Share.	Last week's Returns.
Arbroath and Forfar Bailway	1.5	15	# 151,645	25	23	£165 2 7
Birmingham & Derby June.	46	364	853,044	100	41	1502 15 11
Birmingham and Gluscester	B/28	51	1,013,723	100	43	1868 14 8
Brandling Junction	23	25	457,594	43	-	600 e 5
Chester and Birkenhend	144	146	436,664	50	30	A54 19 8
Dublin and Kingstown	6	6	353,290	100	774	1100 9 7
Dunder and Arbroath	148	164	1.04,004	25	25	310 3 14
Rastern Counties*	1254	174	1,476,170	23	82	annex.
Edinburgh and Glasgow,	45	44	1,283,234	340	48	3339 4 9
Glasgow and Ayr	81	49	1079,345	45	411	1252 7 9
Glasgow and Paisiey Joint	224	225	254,000	25	75	979 4 11
Gd. June. & Chester & Crewe	1152	1158	2,192,047	100	163	7663 8 0
Great North of England	25	45	1,000,000	100	60	1201 11 1
Great Western	118	118	5,268,044	65	BS4	12000 8 10
Hayle	18	18	175,466	100	-	259 14 2
Hull and fielly	81	at I	469,660	50	87 6	1e66 13 6
Lancaster & Freeton June.	204	204	754,000	424	22 6	- Months
Liverpool and Manchester	.01	31	1,410,000	100	160	4543 10 10
London and Birmingham	1124	1124	3,724,897	50	185A	16452 17 18
London and Blackwall	34	34	(607,660)	28	2	1040 11 7
London and Brighton !	86	45.8	7,696,536	Do I	334	4200 7 S
London and Croydon	104	104	567,983	138	104	865 19 95
London and Greenwich	24	34	798,300	20	5 4	797 10 0
London and South Western	86	72	7,283,687	284	A7 1	4719 8 94
Manchester, Botton, A Bury	1.0	10	279,936	353	245	810 10 05
Maschester & Birmingham	45	8	1,106,812	48	23	2204 18 8
Manchester and Leeds	20	10	2,825,500	70	784 2 1	4554 #1 2
Middland Counties	67	5.7	1,440,766	100	dog	2723 9 14
Newcastle and Carllale	del	604	750,600	100	Do	1546 7 8
Newcastle and N. Shields	2 1	7	232,477	20	44	417 11 8
Northern and Eastern?	824	154	356,912	40	.27	1.016 5 7
North Midland	728	724	2,923,027	168	874	4861 16 6.
North Union:	25	25	\$400,0000	78	734	1756 12 8
Preston and Wyre	194	124	276,080	20.	40	614 19 7
Sheffield and Manchester	40	2	251,827	829	me I	161 A A
losth-Eastern	67	41	1,075,468	- 840	226	1807 14 4
Taff Valencessess ves come	36	20	3,39,728	106		666 3 B
Tister	25	8	229,745	774	-	226 13 8
fork and North Midland	24	29	445,100	5.0	m	1968 15 3

Counties (about 13st, per week) included in the returns. Munchester toll is deducted.

g The Liverpool and

JOINT-STOCK BANKS.

Rusinean in this description of investment has been eather more brisk than last week, but the prices remain much the energ, if we except a slight advance in the London and Westmisselver and Australania Banks. Some benefares to the British North American, Colonia, London and Westmisselver and Australania Banks, Some benefares done for the British North American, Colonia, London and Westmisselver, London, Joint Muck, National Frovincial Bank of England, and Provincial Bank of Ireland.

—the last prices of which are given below. Other shares remain at last week's prices.

Blokren.	Company.	Paid.	Price	Shares.	Company.	Pand.	Price
13,660	Australasia	40	8.5	Societa	Liverpool Borough.	10	field
20,669	Birmingbane	. 10	Legip	25,000	Ditto Bank of	124	176
25,000	British N. American	49	35	12,000	Ditto Banking Co.	10	
10,000	Chellanh. & Glowers	h. B		26,666	Ditto Commercial	10	574
	Commercial of Eng.,			2,000	Ditto Royal	BOR	657 k
1,00%	Commer, of London	200	178	104,556	Manch. & Liver. Dia	. 15	104
	Colonial				Manchester		8
	East of Regtard			28,000	Munclester & Salfeli	1 10 .	Emp
10,000	Gloucestershire	10	204	20,000	National of Ireland.	174-	184
4,000	forian	23	25	10,000	Natl. Provi. England	1.33	204
	Leeds Banking Co			60,000	North & South Wales	10	44
20,000	Leeds & West Bidling	66.	10	21,010	Provincial of Ireland	1 25	414
\$6,000	London & Westminst.	20	216	20,000	Scottle Laurenborn	74.	0
	London Joint Stock		1.5	201,0004	W.of Eng.At S. Walcal	D.FN.	178
	London and County				Union of Anstralia		
1-0,000	Liverpool Albina	25	100	80,800	Daiss of London	10	14

MISCELLANEOUS.

that at prices varying but little from those in these charts duting the past week, and that at prices varying but little from those last quoted. Upper Canada Sonds realized 37; Punissella and Original Steams, 10; New Reliend, 21; Seriessionary Servent Switzery, via and Eurya Mari Menin, 15g. As to other quotations the prices can only be considered nominal.

Sharen.	Company.	Faid.	Pelev	Shares	Company,	Pold.	Petro
	Angle-Mexicon Mint				Hongreford Market		
	Auto Dry-Rot				Less. Corp., Fade Rose		
	Asphalte (Claridge)				Lundon Corn Exch.		
	Assess Ton Company				Lorenton Corretoform		
	Lestral Agravaltural				London Cometery		
	Reduce Street				Loss. Barber, Incl. So.		
	Diffusion Rantonna				Met. Pal, Wood Pari		
	Diffe Presented.				Mic sicon A.S. Americ		
	Brid. Amor., Land Co.				New Branswick Ld		
	Brit. Lotes & Div. Lond.				Server, Sal. Sectors y		
K. (580)	forth, Boock & Pad. Balt.	X3	No.		Rival Mad Moon P		
	beats food to				Short's from Promote		
	S. C. of Che. Law. Date.				Scrattle Ausbralian		
	Drostwick Fatered Salt				May Consum Power		
	Squitable Sever, for.				Thampen Funded		
	ion. Name North				Van Disman's Land		
	me. Barrer. Ent. Sor. !				W. Lon, & Western Co.		
dien. m	men. Market, man man 1	con .	2000	- adjunction	to a firm of the framework of the	CORP. Print	See.

	STATEMENT OF LETTERS DELIVERED IN THE CO-
	Diship Avegued 12, 1941
	Correspon since \$2 on the week's believe